



### Subject: New type of deck mechanism

1. This service manual contains new deck mechanism (Deck no. N3103XN). Before attempt to servicing, please remove the top case and confirm the kind of deck mechanism. Deck mechanism part number is shown on the upper part of it (Right corner). This deck number is showing as below:

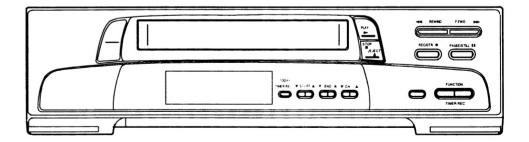
Deck no. N3103XN -----> 3103

If the deck number other than " 3101 ", refer to original service manual for service.

2. This service manual is applied the models V-8008CM(N) and V-8008SA(N) with new serial number label which indicates suffix " A " at last digit of the serial number.

If the deck number other than "A", refer to original service manual for service.

# VIDEO CASSETTE RECORDER V-8008CM(N) / V-8008SA(N)





# **MAIN SECTION**

# VIDEO CASSETTE RECORDER V-8008CM(N) / V-8008SA(N)

### Sec. 1: Main Section

- Specifications
- Preparation for Servicing
- Adjustment Procedures
- Schematic Diagrams
- CBA's

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### **SPECIFICATIONS**

Description	Unit	Minimum	Nominal	Maximum	Condition
1. Video					F6-A
1-1 Video Output (PB)	Vp-p	0.8	1.0	1.2	SP Mode
1-2 Video Output (R/P)	Vp-p	0.8	1.0	1.2	SP Mode
1-3 Video S/N Y (R/P)	dB	40	44		SP Mode
1-4 Video Color S/N AM (R/P)	dB	37	41		SP Mode
1-5 Video Color S/N PM (R/P)	dB	30	36		SP Mode
1-6 Resolution (PB)	Line	230	245		SP Mode
2. Servo					F6-N
2-1 Jitter Low (PB)	μsec	0.12	0.07		SP Mode
2-2 Wow & Flutter (R/P)	%	0.5	0.3		SP Mode
3. Audio					F6-A
3-1 Output (PB)	dBV	-11	-8	-5	SP Mode
3-2 Output (R/P)	dBV	-11	-8	-3.5	SP Mode
3-3 S/N (R/P)	dB	36	41		SP Mode
3-4 Distortion (R/P) Input; -10dB	%	4.0	1.0		SP Mode
3-5 Freq. response (R/P) at 100Hz	dB	-7	-4		SP Mode
(-20dB ref. 1kHz) at 8kHz	dB	-10	-4		SP Mode
4. Tuner		B/G	D/K		
4-1 Channel VL	СН	E2-E4	R1-R5		E-E Mode
VH	СН	E5-E12	R6-R12		E-E Mode
UHF	CH	E21-E69	E21-E69		E-E Mode
4-2 Video Output	Vp-p	0.8	1.0	1.2	E-E Mode
4-3 Video S/N (E 45CH)	dB	39	42		E-E Mode
4-4 Audio Output	mV/rms	250	400	550	E-E Mode
4-5 Audio Ottput 4-5 Audio S/N	dB	40	46		E-E Mode

**Note:** Nominal specs represent the design specs. All units should be able to approximate these – some will exceed and some may drop slightly below these specs. Limit specs represent the absolute worst condition that still might be considered acceptable; In no case should a unit fail to meet limit specs.

### **IMPORTANT SAFETY PRECAUTIONS**

### **Product Safety Notice**

Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection, nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by a \( \text{\text{\text{\text{}}}} \) on schematics and in parts lists. Use of a substitute replacement that does not have the same safety characteristics as the recommended replacement part

might create shock, fire, and/or other hazards. The Product's Safety is under review continuously and new instructions are issued whenever appropriate. Prior to shipment from the factory, our products are carefully inspected to confirm with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

### **Precautions during Servicing**

A. Parts identified by the <u>A</u> symbol are critical for safety.

Replace only with part number specified.

- **B.** In addition to safety, other parts and assemblies are specified for conformance with regulations applying to spurious radiation. These must also be replaced only with specified replacements.

  Examples: RF converters, RF cables, noise blocking capacitors, and noise blocking filters, etc.
- **C.** Use specified internal wiring. Note especially:
  - 1) Wires covered with PVC tubing
  - 2) Double insulated wires
  - 3) High voltage leads
- **D.** Use specified insulating materials for hazardous live parts. Note especially:
  - 1) Insulation tape
  - 2) PVC tubing
  - 3) Spacers
  - 4) Insulators for transistors
- E. When replacing AC primary side components (transformers, power cord, etc.), wrap ends of wires securely about the terminals before soldering.
- **F.** Observe that the wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).
- **G.** Check that replaced wires do not contact sharp edges or pointed parts.

- H. When a power cord has been replaced, check that 10-15 kg of force in any direction will not loosen it.
- I. Also check areas surrounding repaired locations.
- J. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.
- K. Crimp type wire connector

The power transformer uses crimp type connectors which connect the power cord and the primary side of the transformer. When replacing the transformer, follow these steps carefully and precisely to prevent shock hazards.

Replacement procedure

1) Remove the old connector by cutting the wires at a point close to the connector.

Important: Do not re-use a connector. (Discard it.)

- Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.
- 3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.
- 4) Use a crimping tool to crimp the metal sleeve at its center. Be sure to crimp fully to the complete closure of the tool.
- L. When connecting or disconnecting the internal connectors, first, disconnect the AC plug from the AC outlet.

VCR-SFPA

1-2-1

# Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts, and wires have been returned to their original positions. Afterwards, do the following tests and confirm the specified values to verify compliance with safety standards.

### 1. Clearance Distance

When replacing primary circuit components, confirm specified clearance distance (d) and (d') between soldered terminals, and between terminals and surrounding metallic parts. (See Fig. 1)

Table 1: Ratings for selected area

lable 1. Hadings is: series						
AC Line Voltage	Region	Clearance Distance (d) (d')				
220 to 240 V	Europe or Australia	<ul><li>≥ 4 mm(d)</li><li>≥ 6 mm(d')</li></ul>				

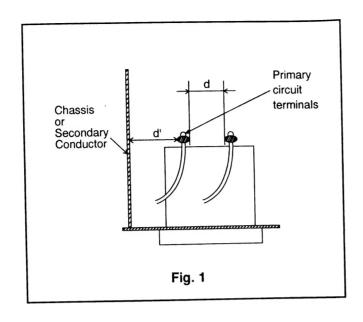
**Note:** This table is unofficial and for reference only. Be sure to confirm the precise values.

### 2. Leakage Current Test

Confirm the specified (or lower) leakage current between B (earth ground, power cord plug prongs) and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.) is lower than or equal to the specified value in the table below.

### Measuring Method (Power ON):

Insert load Z between B (earth ground, power cord plug prongs) and exposed accessible parts. Use an AC voltmeter to measure across the terminals of load Z. See Fig. 2 and the following table.



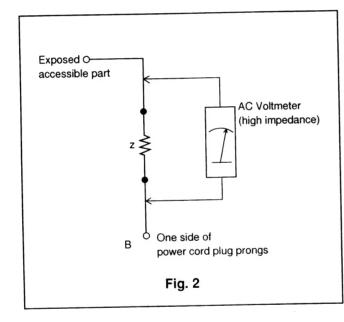


Table 2: Leakage current ratings for selected areas

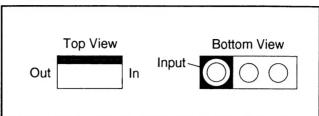
AC Line Voltage	Region	Load Z	Leakage Current (i)	One side of power cord plug prongs (B) to:
	Europe or	2kΩ RES. Connected in parallel	i≤0.7mA AC Peak i≤2mA DC	RF or Antenna terminals
220 to 240 V	Australia	50kΩ RES. Connected in parallel	i≤0.7mA AC Peak i≤2mA DC	A/V Input, Output

**Note:** This table is unofficial and for reference only. Be sure to confirm the precise values.

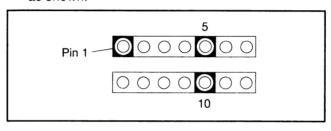
## STANDARD NOTES FOR SERVICING

### **Circuit Board Indications**

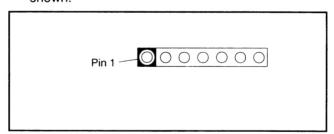
a. The output pin of the 3 pin Regulator ICs is indicated as shown.



 For other ICs, pin 1 and every fifth pin are indicated as shown.

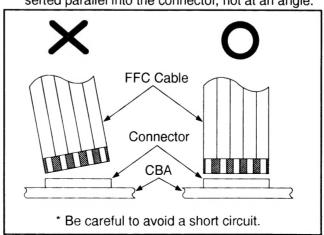


c. The 1st pin of every male connector is indicated as shown.



### **Instructions for Connectors**

- When you connect or disconnect the FFC (Flexible Foil Connector) cable, be sure to first disconnect the AC cord.
- 2. FFC (Flexible Foil Connector) cable should be inserted parallel into the connector, not at an angle.

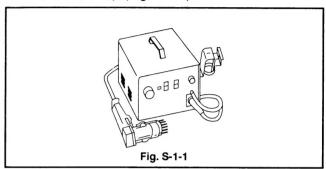


### How to Remove / Install Flat Pack IC

### 1. Removal

### With Hot-Air Flat Pack-IC Desoldering Machine:

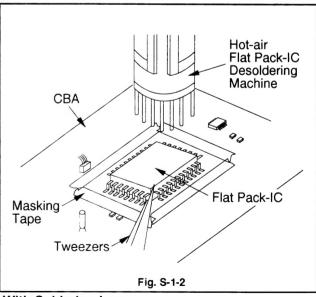
 Prepare the hot-air flat pack-IC desoldering machine, then apply hot air to the Flat Pack-IC (about 5 to 6 seconds). (Fig. S-1-1)



(2) Remove the flat pack-IC with tweezers while applying the hot air.

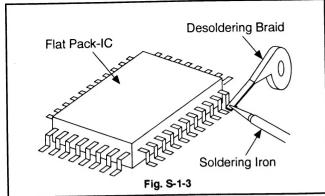
### Caution:

- 1.Do not supply hot air to the chip parts around the flat pack-IC for over 6 seconds because damage to the chip parts may occur. Put masking tape around the flat pack-IC to protect other parts from damage. (Fig. S-1-2)
- 2. The flat pack-IC on the CBA is affixed with glue, so be careful not to break or damage the foil of each pin or the solder- lands under the IC when removing

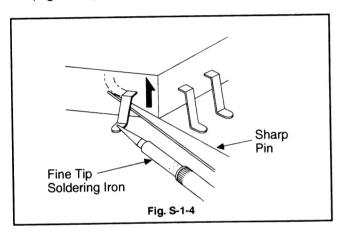


### With Soldering Iron:

(1) Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)



(2) Lift each lead of the flat pack-IC upward one by one, using a sharp pin or wire to which solder will not adhere (iron wire). When heating the pins, use a fine tip soldering iron or a hot air desoldering machine. (Fig. S-1-4)

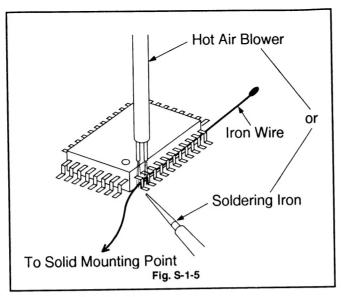


### With Iron Wire:

- (1) Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)
- (2) Affix the wire to a workbench or solid mounting point, as shown in Fig. S-1-5.
- (3) While heating the pins using a fine tip soldering iron or hot air blower, pull up the wire as the solder melts so as to lift the IC leads from the CBA contact pads as shown in Fig.S-1-5.

### Note:

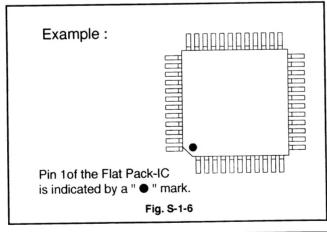
When using a soldering iron, care must be taken to ensure that the flat pack-IC is not being held by glue. When the flat pack-IC is removed from the CBA, handle it gently because it may be damaged if force is applied.

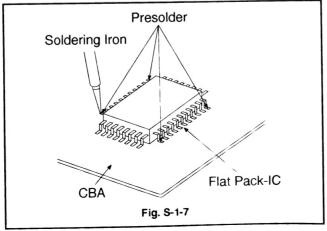


### 2. Installation

1-3-2

- (1) Using desoldering braid, remove the solder from the foil of each pin of the flat pack-IC on the CBA so you can install a replacement flat pack-IC more easily.
- (2) The " " mark on the flat pack-IC indicates pin 1. (See Fig. S-1-6.) Be sure this mark matches the 1 on the PCB when positioning for installation. Then pre- solder the four corners of the flat pack-IC. (See Fig. S-1-7.)
- (3) Solder all pins of the flat pack-IC. Be sure that none of the pins have solder bridges.





# Instructions for Handling Semiconductors

Electrostatic breakdown of the semiconductors may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

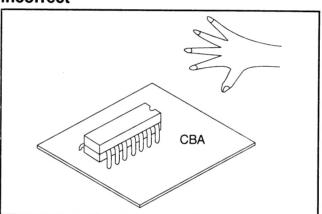
### 1. Ground for Human Body

Be sure to wear a grounding band (1M ohm) that is properly grounded to remove any static electricity that may be charged on the body.

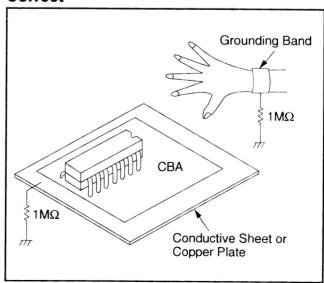
### 2. Ground for Workbench

Be sure to place a conductive sheet or copper plate with proper grounding (1M ohm) on the workbench or other surface, where the semiconductors are to be placed. Because the static electricity charge on clothing will not escape through the body grounding band, be careful to avoid contacting semiconductors with your clothing.

### Incorrect



### Correct

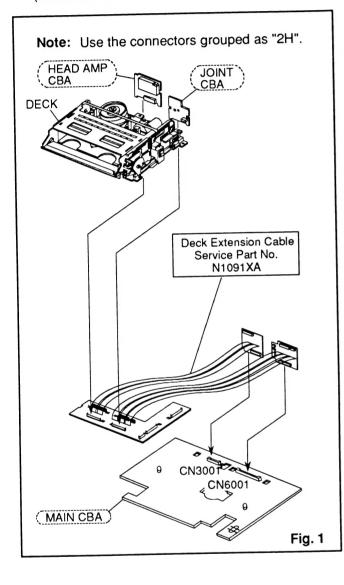


U9NOTE 1-3-3 U9NOTE

# PREPARATION FOR SERVICING

# How to use Deck Extension Cable

- (1) Remove the Deck Mechanism Assembly. If needed, remove the Main CBA from the chassis.
- (2) Use the Deck Extension Cable to connect the Deck Mechanism Assembly to the Main CBA. (Deck Extension Cable: N1091XA)



## How to Enter the Service Mode

Note: When the unit is set in the service mode, the whole display will keep blinking.

**About Optical Sensors** 

### Caution:

An optical sensor system is used for the Tape Start and End Sensors on this equipment. Carefully read and follow the instructions below. Otherwise the unit may operate unexpectedly.

### What to do for preparation

After plugging in the unit, connect J2 (SENSOR INHIBITION) to J1 (GROUND). This will stop the function of Tape Start and End Sensors. (If these TPs are connected before plugging in the unit, the function of the sensors will stay valid.)

Bring a tape to the tape inlet of the Deck Mechanism Assembly and press the PLAY button. The tape will be loaded into the Deck Mechanism Assembly.

**Note:** Because the Tape End Sensors are inactive, do not run a tape all the way to the start or the end of the tape to avoid tape damage.

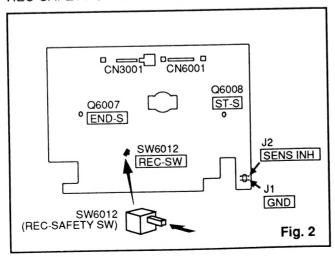
### About REC-Safety Switch

### Caution:

The REC-Safety Switch is directly mounted on the Main CBA. When the Deck Mechanism Assembly is removed from the Main CBA for servicing, this switch does not work automatically.

### What to do for preparation

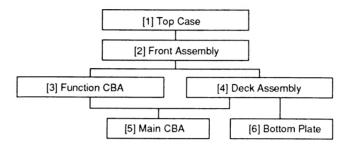
In order to record, press the Rec button while pushing REC-SAFETY SW on the Main CBA.



### CABINET DISASSEMBLY INSTRUCTIONS

### 1. Disassembly Flowchart

This flowchart indicates the disassembly steps to gain access to item(s) to be serviced. When reassembling, follow the steps in reverse order. Bend, route, and dress the cables as they were.



### **Disassembly Method**

ID/				
LOC. No.	PART	Fig. No.	REMOVE/ *UNHOOK/UNLOCK/ RELEASE/UNPLUG/ DESOLDER	Note
[1]	Top Case	1, 2	4(S-1), (S-2)	-
[2]	Front Assembly	3, 4	*8(L-1), Deck Holder	1, 2
[3]	Function CBA	5	*2(L-2), (CN6001)	3
[4]	Deck Assembly	2, 6	(S-3), 5(S-4) Dew Sensor (CN2901, CN3501)	4
[5]	Main CBA	7	*4(L-3)	5
[6]	Bottom Plate	8	*2(L-4)	6
1	2	3	4	5

- 1: Identification (location) No. of parts in the figures
- 2: Name of the part
- (3): Figure Number
- (4): Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.

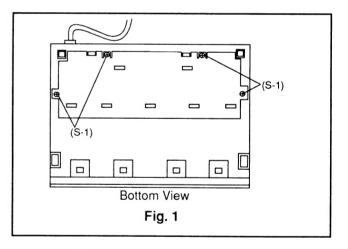
P=Spring, L=Locking Tab, S=Screw, CN=Connector

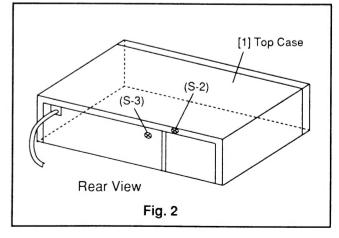
- \*=Unhook, Unlock, Release, Unplug, or Desolder
- e.g. 2(S-2) = two Screws (S-2), 2(L-2) = two Locking Tabs (L-2)
- (5): Refer to "Reference Notes".

### **Reference Notes**

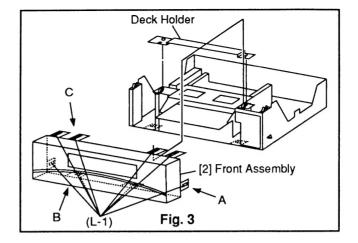
**CAUTION** Locking Tabs (L-1) are fragile. Be careful not to break them.

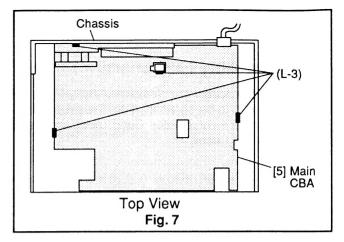
- Release 8 Locking Tabs (L-1). To do this, first release Locking Tab (A) on each side, then two Locking Tabs (B) at the bottom, and then four Locking Tabs (C) at the top. (Fig. 3, 4)
- 2. Remove Deck Holder. (Fig. 3)
- 3. Release 2 Locking Tabs (L-2). Disconnect Connector (CN6001) to remove Function CBA. Hold Main CBA while pulling up Function CBA. (Fig. 5)
- Remove Screw (S-3) and 5 Screws (S-4). Disconnect the connector of Dew Sensor from Main CBA.
   Then slowly lift Deck Assembly up. Lifting Deck Assembly disconnects 2 Connectors (CN2901, CN3501). (Fig. 2, 6)
- Release 4 Locking Tabs (L-3) as you lift Main CBA. (Fig. 7)
- Slide Bottom Plate in the direction of the bigger arrow while pressing down 2 Locking Tabs (L-4). (Fig. 8)

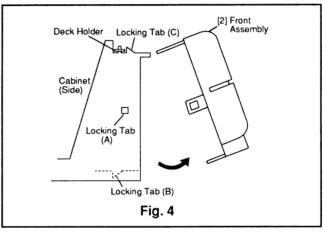


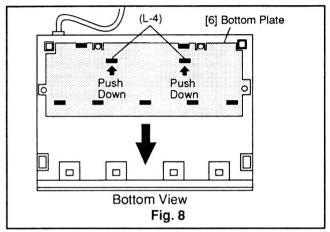


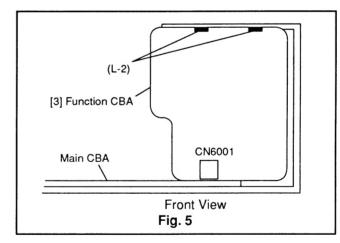
1-4-1 H2190JIG 1-5-1 V2400DC

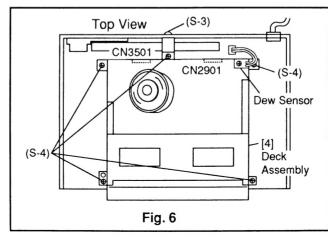












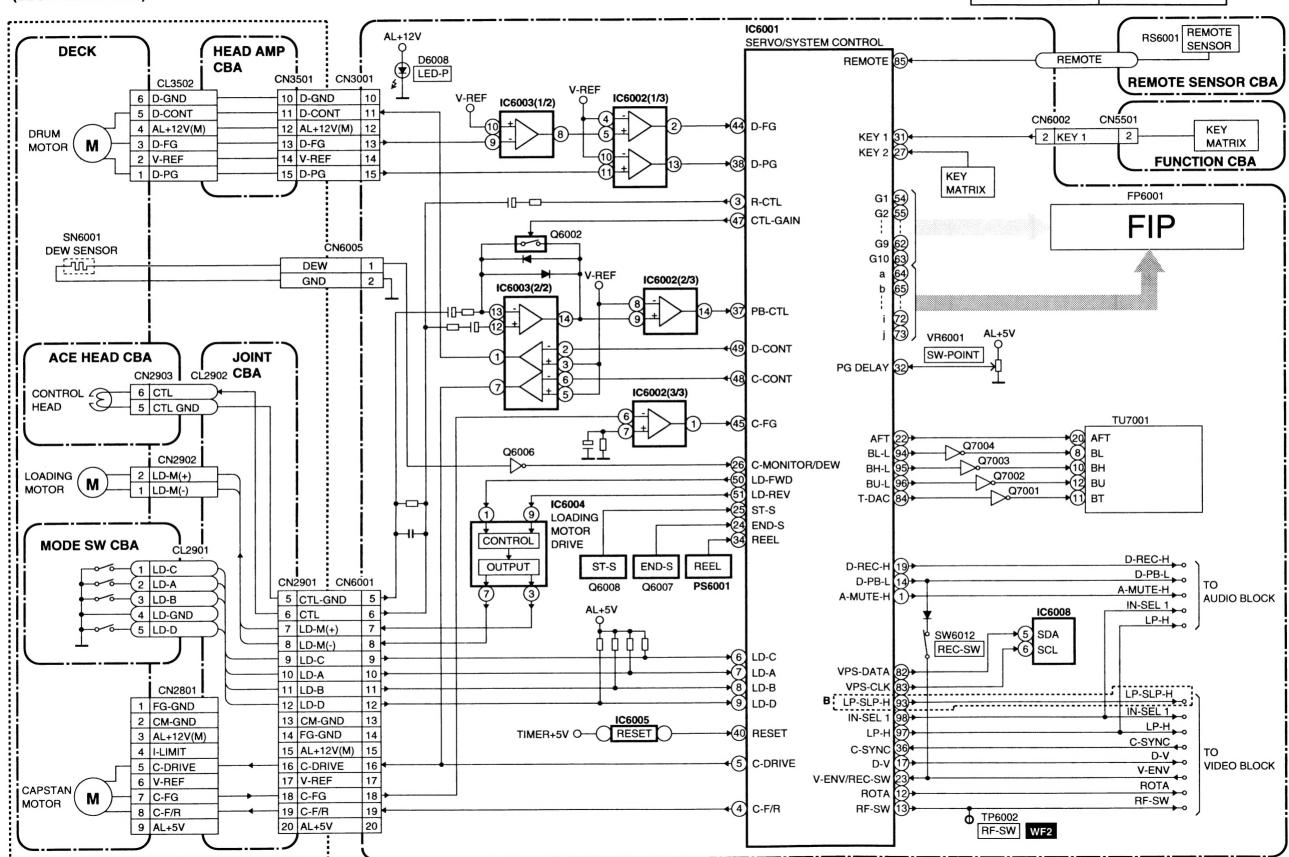
1-5-2 V2400DC

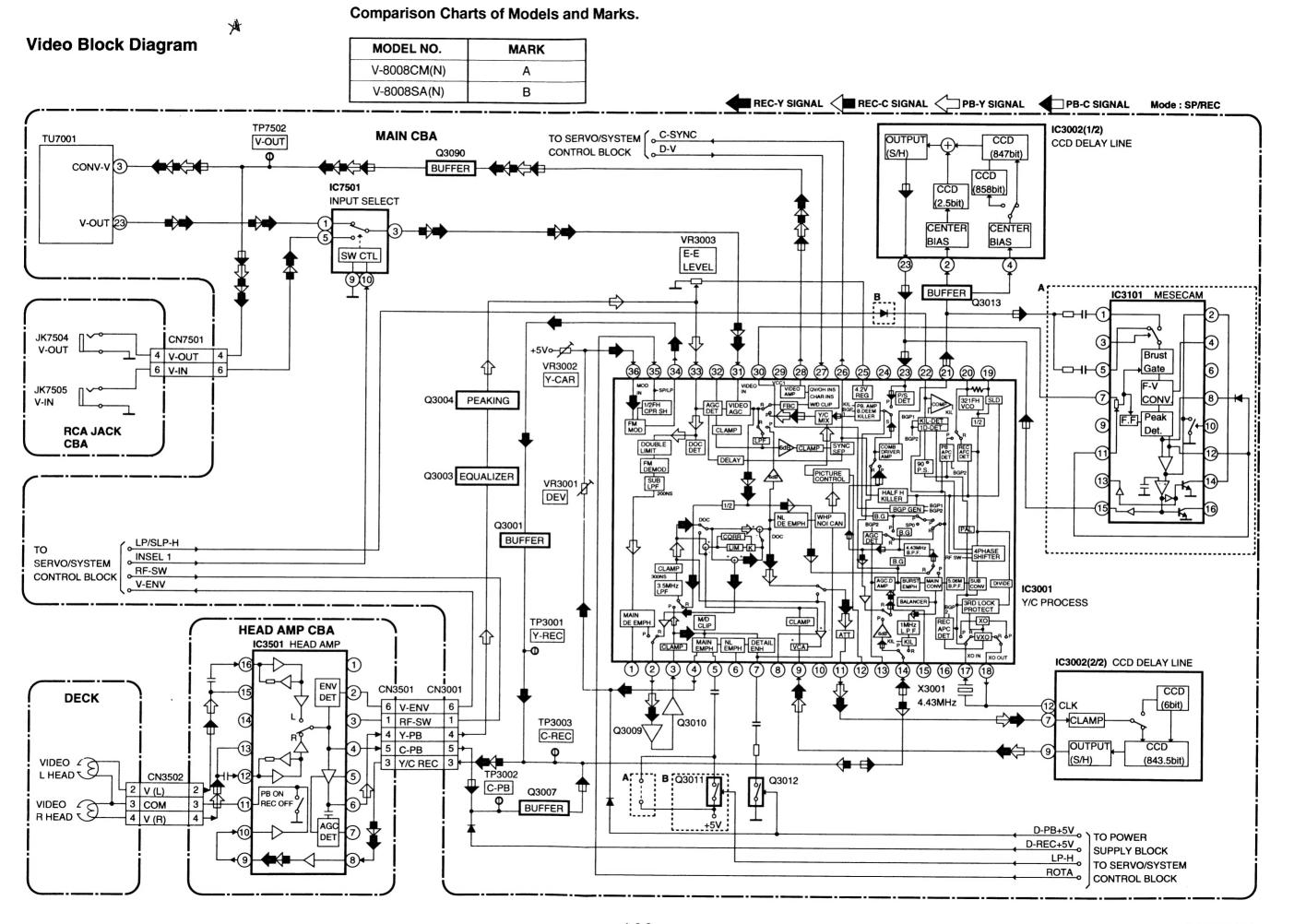
## **BLOCK DIAGRAMS**

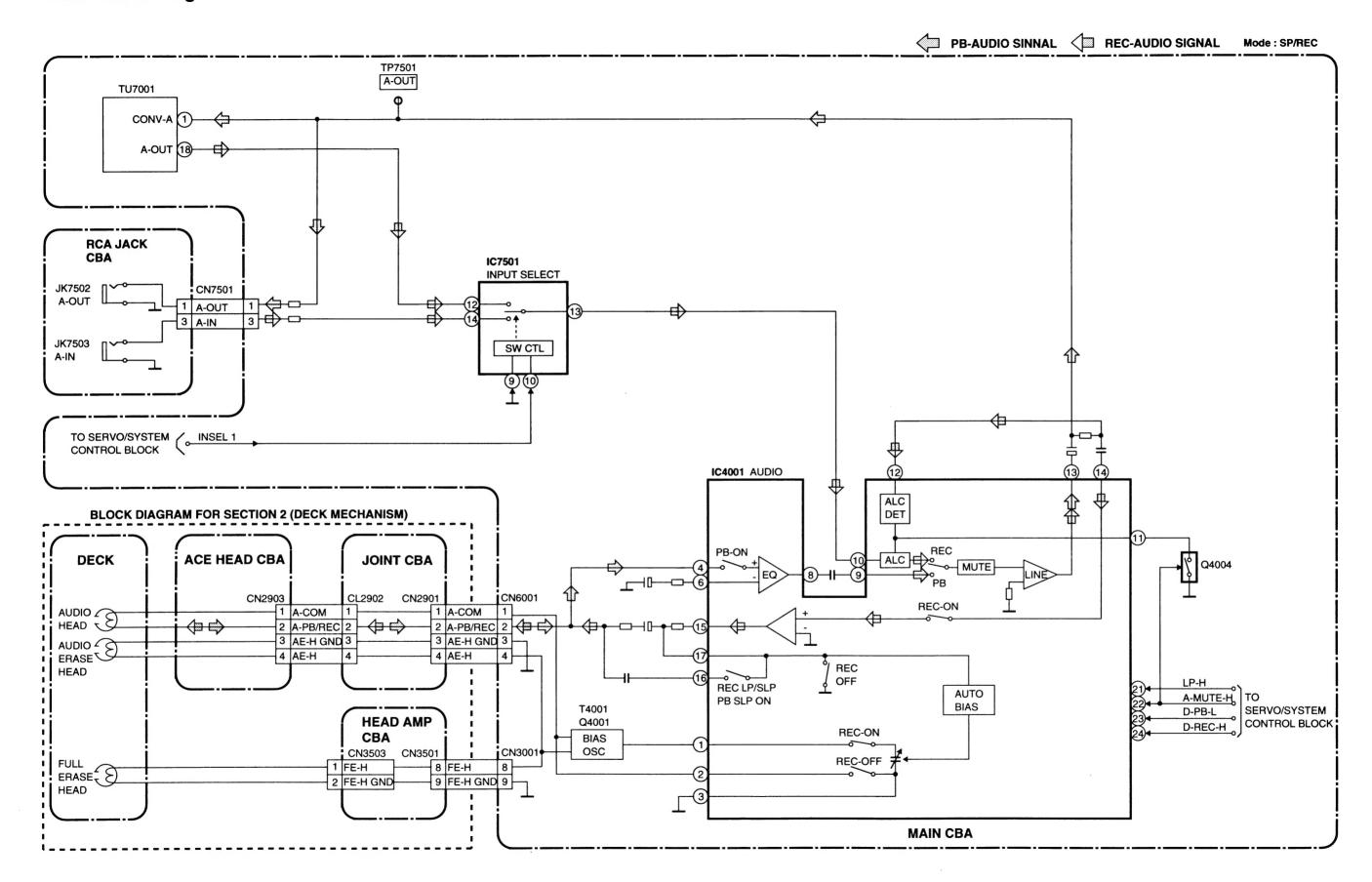
Comparison Charts of Models and Marks.

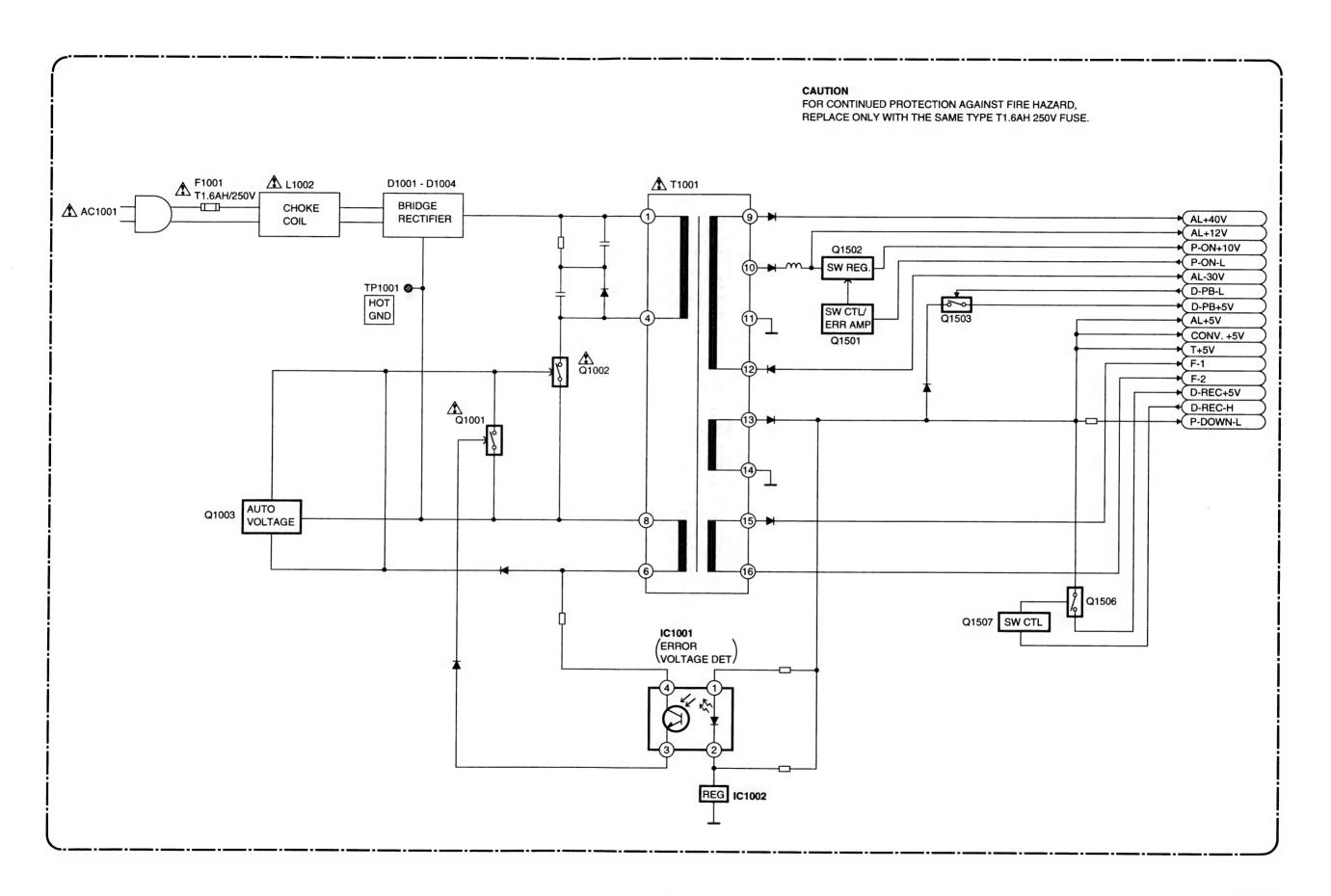
# BLOCK DIAGRAM FOR SECTION 2 (DECK MECHANISM)

MODEL NO.	MARK
V-8008CM(N)	Α
V-8008SA(N)	В









# **ELECTRICAL ADJUSTMENT INSTRUCTIONS**

General Note: "CBA" is an abbreviation for "Circuit Board Assembly".

### Notes:

- Electrical adjustments are required after replacing circuit components and certain mechanical parts. It is important to do these adjustments only after all repairs and replacements have been completed. Also, do not attempt these adjustments unless the proper equipment is available.
- 2. To perform these alignment / confirmation procedures, make sure that the tracking control is set in the center position: Press both CHANNEL "UP" and "DOWN" buttons at the same time. ( on VCR only )

### **Test Equipment Required**

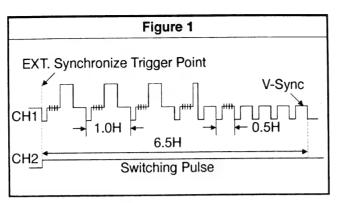
- 1. Oscilloscope: Dual-trace with 10:1 probe, V-Range: 0.001~50V/Div., F-Frange: AC~DC-20MHz
- 2. PAL Pattern Generator (color bar with 100% white)
- 3. Alignment Tape (F6-A, Blank Tape)
- 4. Spectrum Analyzer

### 1. Head Switching Position Adjustment

**Purpose:** To determine the Head Switching point during playback.

**Symptom of Misadjustment:** May cause Head Switching noise or vertical jitter in the picture.

Test Point	Adj. Point	Mode	Input
TP7502(V-OUT) TP6002(RF-SW) GND	VR6001 (Switching Point)	PLAY (SP)	
Tape Measurement Equipment S		Sp	ec.
		l±1Η ±60μs)	
Connection	s of Measuremen	t Equipn	nent
		Oscillo	scope
Main CBA G	P7502 ND P6002	CH1	CH2 Trig. (+)



### **Reference Note:**

TP6002, TP7502, VR6001: MAIN CBA

1. Play back the test tape and adjust VR6001 so that the V-sync front edge of the CH1 video output waveform is out the 6.5H(412.7µs) delayed position from the rising edge of the CH2 head switching pulse waveform.

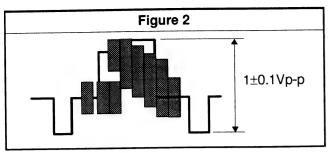
### 2. V-Out Level Adjustment

Purpose: To set optimum luminance video out level.

**Symptom of Misadjustment:** If the video out level is too high, The TV may overload. If the level is too low, The S/N ratio deteriorates.

Test Point	Adj. Point		Mode	Input	
TP7502 (V-OUT) GND	(	VR3003 (E-E LEVEL)		E-E	Color Bar Signal with 100% white
Таре		leasureme Equipmen			Spec.
		Pattern Generator Oscilloscope			±0.1Vp-p
Conne	ctio	ns of Meas	urer	nent Ec	uipment
Main C	ВА	Video In TP7502 GND			cilloscope  CH1
					_

1-7-1 H2110EA



### **Reference Notes:**

TP7502, VR3003: MAIN CBA

- 1. Input the color bar signal with window 100% white to video input.
- 2. Adjust VR3003 so that the video level becomes 1±0.1Vp-p. (Connected to TV)

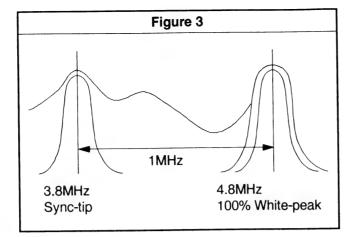
## 3. FM Carrier Deviation Adjustment

Purpose: To align FM carrier deviation.

**Symptom of Misadjustment:** If the deviation is not correct, abnormal contrast of light and dark on the picture may be seen.

If the carrier deviation is not correct, Beats appear on the picture.

on the picture	е.				
Test Point	Adjustment Point	Mode	Input		
TP3001 (Y-REC) TP6002 (RF-SW)	VR3001 (Deviation) VR3002 (Carrier)	REC. (SP)	Color Bar with 100% white		
Таре	Measurement Equipment	Sp	ec.		
Blank Tape	Frequency Counter	3.8±0 100%wl	c-tip .1MHz nite peak .1MHz		
Connection	ns of Measuren	nent Equip	oment		
Pattern Generator  Out Oscilloscope  Analyzer  Main CBA  Wideo In TP3001 CH1 EXT In TP6002 Trg.					



### **Reference Notes:**

TP3001, TP6002, VR3001, VR3002: MAIN CBA

### **Reference Notes:**

- 1. Input color bar signal with 100% white to video input.
- 2. Adjust Sync-tip to 3.8MHz± 0.1MHz by VR3001, White-peak for 4.8MHz±0.1MHz by VR3002.

### SCHEMATIC DIAGRAMS / CBA'S AND TEST POINTS

### **Standard Notes**

### WARNING

Many electrical and mechanical parts in this chassis have special characteristics. These characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the mark " \( \Lambda \)" in the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

### **Capacitor Temperature Markings**

ECB

1	Sapacitor remperature markings						
I	Mark	Capacity	Standard	Temperature			
		change rate	temperature	range			
ĺ	(B)	±10%	20°C	-25~+85°C			
	(F)	+30 -80%	20°C	-25~+85°C			
	(SR)	±15%	20°C	-25~+85°C			
	(Z)	+30 -80%	20°C	-10~+70°C			

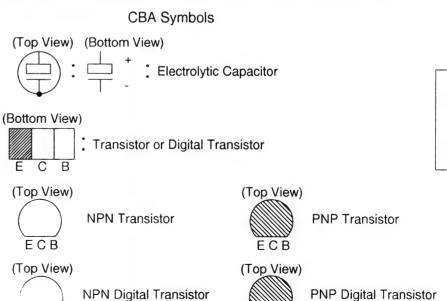
### Note:

- 1 Do not use the part number shown on these drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since these drawings were prepared.
- All resistance values are indicated in ohms (K=10<sup>3</sup>, M=10<sup>6</sup>).
- 3 Resistor wattages are 1/5W or 1/6W unless otherwise specified.
- 4 All capacitance values are indicated in  $\mu$ F (P=10<sup>-6</sup> $\mu$ F).
- 5 All voltages are DC voltages unless otherwise specified.
- 6 Electrical parts such as capacitors, connectors, diodes, IC's, transistors, resistors, switches, and fuses are identified by four digits. The first two digits are not shown for each component. In each block of the diagram, there is a note such as shown below to indicate these abbreviated two digits.

### TUNER BLOCK SYMBOL NO. 70\*\*

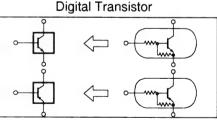
Example: "C08" in this "TUNER BLOCK" is C7008.

### Capacitors and transistors are represented by the following symbols.



ECB

1-8-1



Schematic Diagram Symbols

SCPA

### LIST OF CAUTION, NOTES, AND SYMBOLS USED IN THE SCHEMATIC DIAGRAMS ON THE FOLLOWING PAGES:

### 1. CAUTION:

FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE.

### 2. CAUTION:

Voltage selectable power supply circuit is used in this unit.

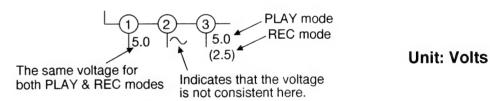
If Main Fuse (F01) is blown, first check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

### 3. Note:

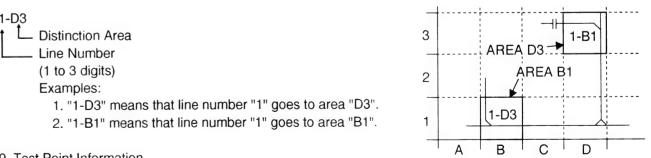
- (1)Do not use the part number shown on the drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since the drawings were prepared.
- (2)To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

### 4. Wire Connectors

- (1)Prefix symbol "CN" means "connector." (Can disconnect and reconnect)
- (2) Prefix symbol "CL" means "wire-solder holes of the PCB." (Wire is soldered directly.)
- Note: Mark "•" is a leadless (chip) component.
- 6. Mode: SP/REC
- 7. Voltage indications for PLAY and REC modes on the Schematics are as shown below:

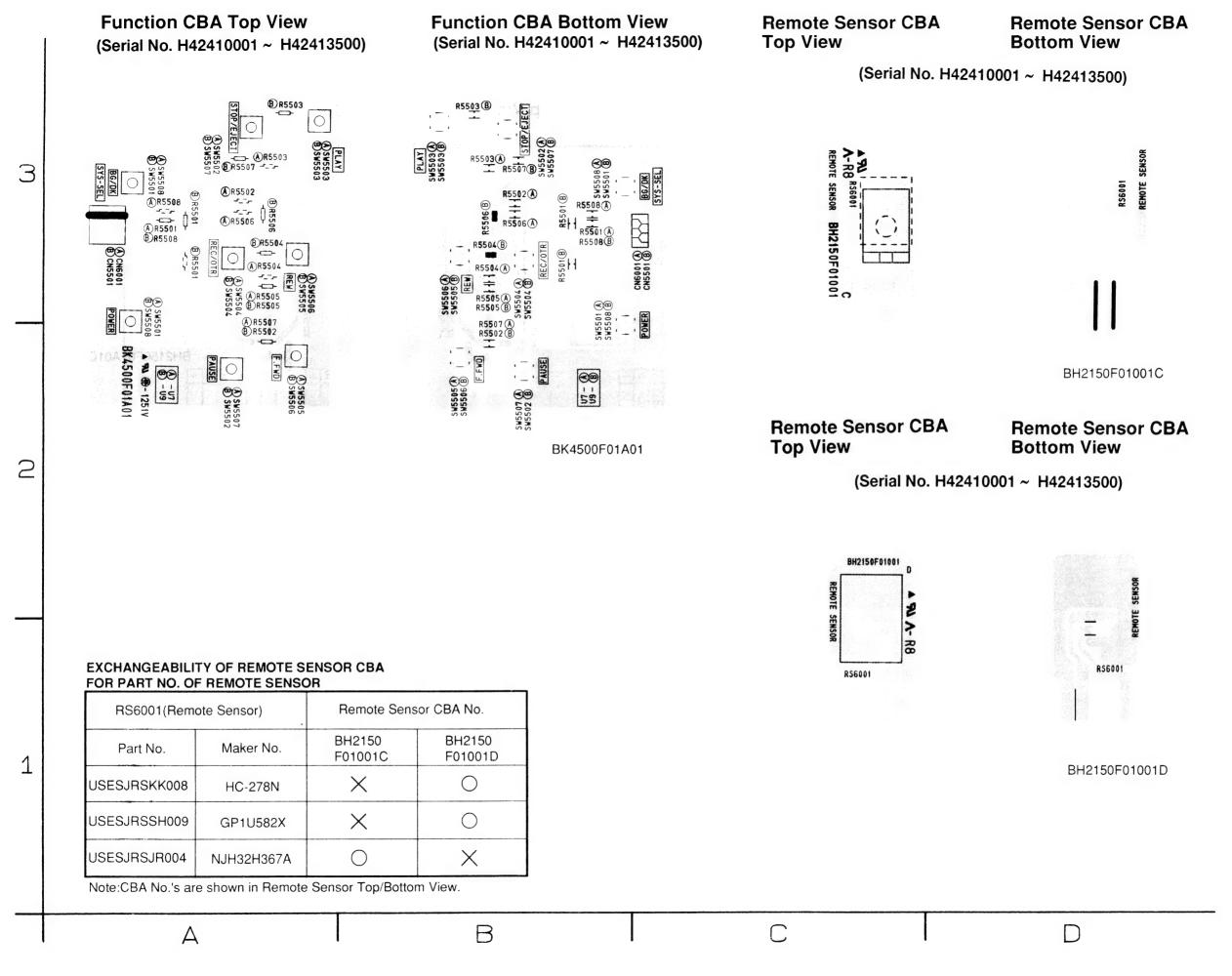


8. How to read converged lines

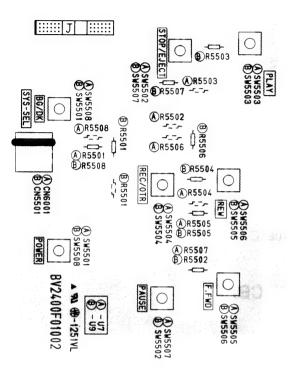


- 9. Test Point Information
  - () : Indicates a test point with a jumper wire across a hole in the PCB.
  - : Used to indicate a test point with a component lead on foil side.
  - Used to indicate a test point with no test pin.
  - Used to indicate a test point with a test pin.

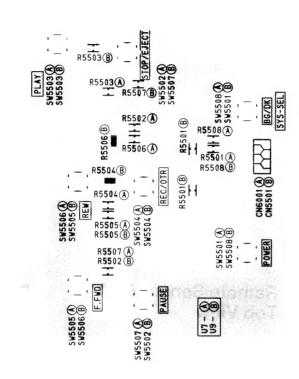
SCRK02 1-8-2



# Function CBA Top View (Serial No. H42413501 ~ )



# Function CBA Bottom View (Serial No. H42413501 ~ )



BV2400F01002

# EXCHANGEABILITY OF REMOTE SENSOR CBA FOR PART NO. OF REMOTE SENSOR.

RS6001(Remote Sensor)		Remote Sensor CBA No.		
Part No.	Maker No.	BH2150F01A01C	BH2150F01A01D	
USESJRSKK008	HC-278N	×	0	
USESJRSSH009	GP1U582X	×	О	
USESJRSJR004	NJH32H367A	О	×	

Note:CBA No.'s are shown in Remote Sensor Top/Bottom View.

### Remote Sensor CBA Top View

Remote Sensor CBA Bottom View

(Serial No. H42413501 ~ )





BH2150F01A01C

### Remote Sensor CBA Top View

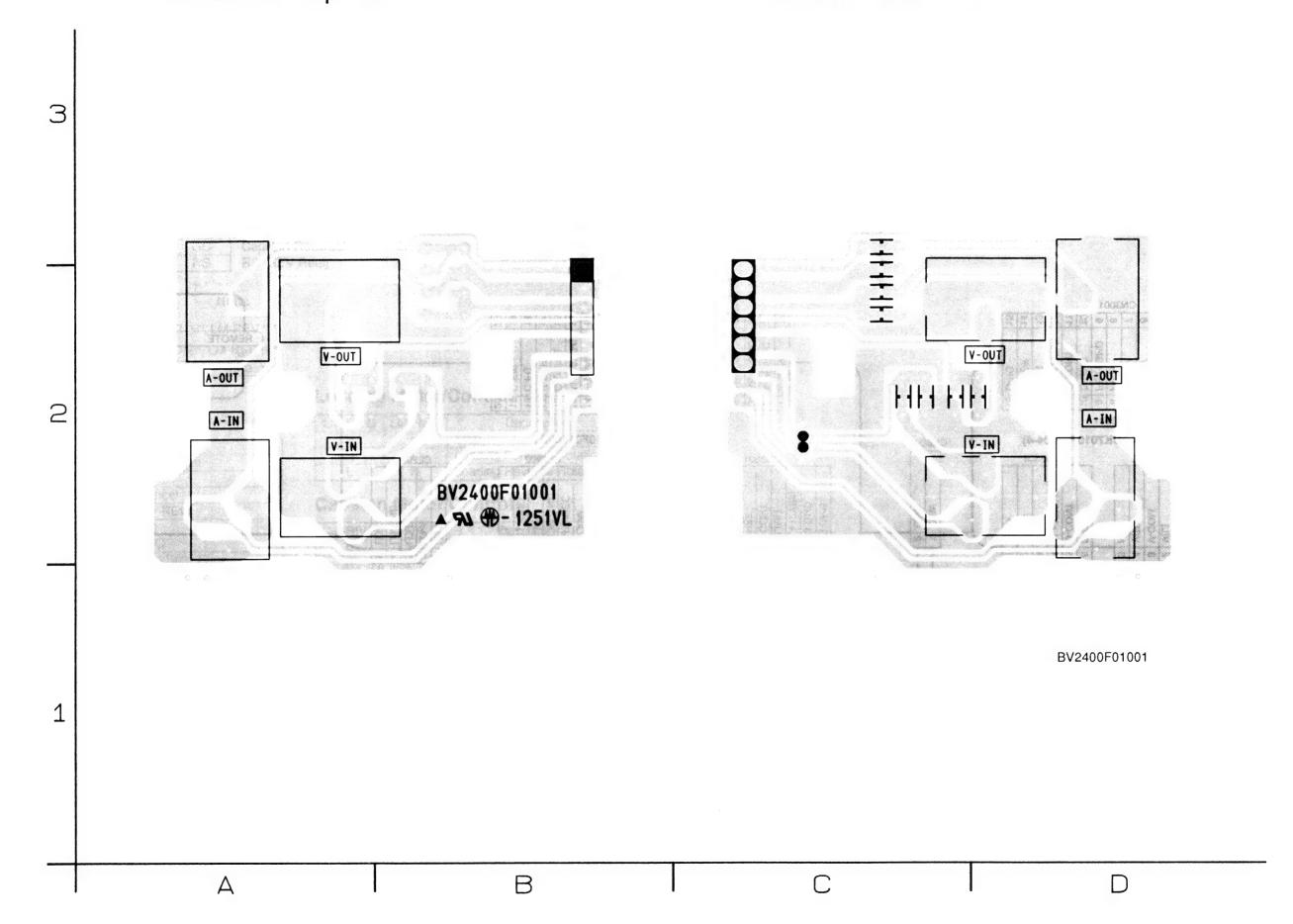
Remote Sensor CBA Bottom View

(Serial No. H42413501 ~ )

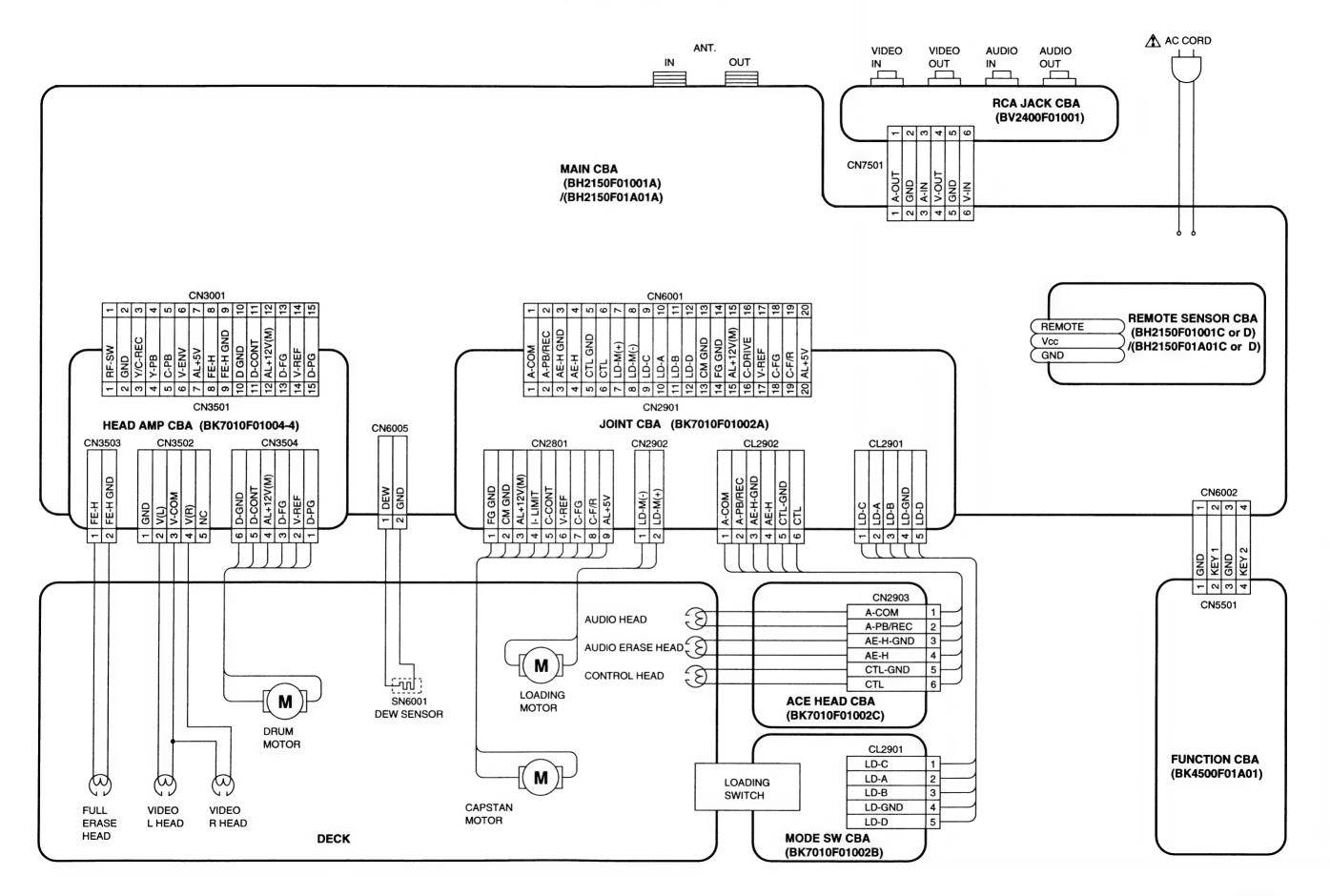




BH2150F01A01D



### **WIRING DIAGRAM**



1-9-1

# **SYSTEM CONTROL TIMING CHARTS**

# Mode SW: LD-A/LD-B/LD-C/LD-D

	LD-SW					
LD-A	LD-B	LD-C	LD-D	Symbol		
L	Н	Н	Н	EJ		
Н	Н	Н	Н	CL		
L	L	Н	Н	SB		
Н	L	Н	Н	TL		
Н	L	L	Н	FB		
Н	Н	L	Н	SF		
Н	Н	L	L	AU		
Н	Н	Н	L	AL		
Н	L	Н	L	SS		
Н	Н	Н	Н	GC		
L	Н	Н	L	RS		

Eject REW Reel Stop (B) Brake Cancel

FF / REW, Stop (A)

Play / REC (FS Pause 2 Head Still) 4 Head Slow / Still Capstan Reversal RS (REV Reel)

- Note:

EJ ----- RS: Loading FWD (LM-FWD "H", LM-REV "L")

RS ---- EJ: Loading REV (LM-FWD "L", LM-REV "H")

Stop (A) = Loading

Stop (B) = Unloading

### Note:

Symbol	Loading Status
EJ	Eject
CL	Eject ~ Loading Completion
SB	REW ~ Stop(B)
TL	Stop(B) ~ Brake Cancel
FB	Brake Cancel ~ FF / REW
SF	FF / REW ~ Stop(A)
AU	Stop(A) ~ Play / REC
AL	Play / REC ~ 4 Head Still / Slow
SS	4 Head Still / Slow ~ Capstan Reversal
GC	Capstan Reversal ~ REW Reel
RS	REW

# **Loading Motor/Control**

LM-FWD	LM-REV	Description
Н	Н	Stop
H	L	Loading Forward Rotation
L	Н	Loading Reverse Rotation

# Capstan Motor/Control

C-F/R	Description	
L/H	Stop, The brake is not applied.	
L	Capstan, Reel Forward Rotation	
Н	Capstan, Reel Reverse Rotation	
	L/H L	

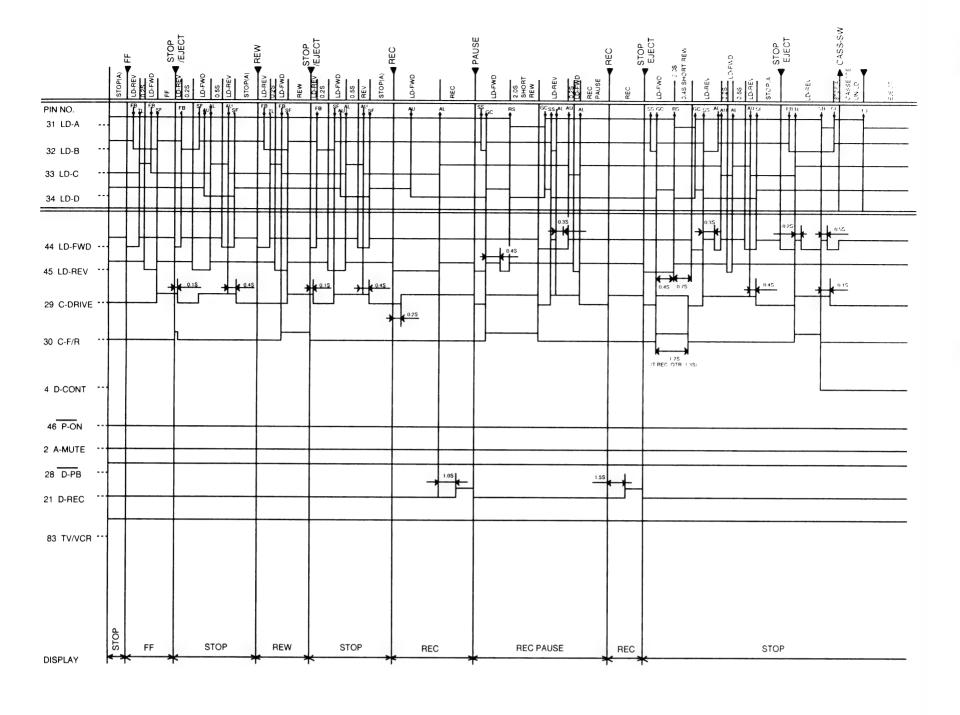
1-10-1 V2400TI

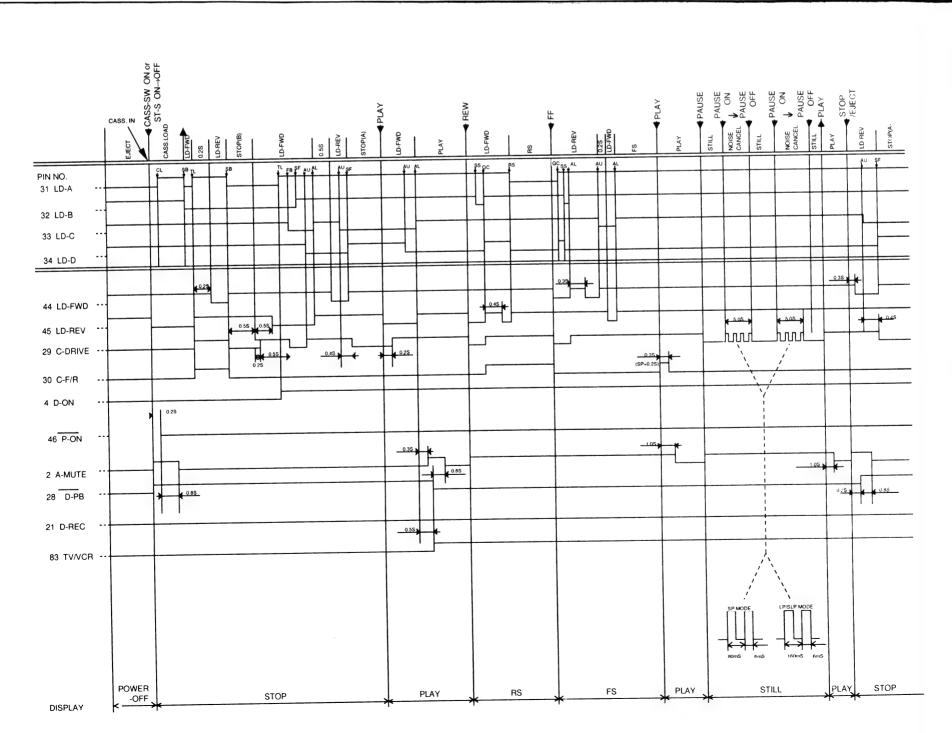


1-10-3

V2400TI







# IC PIN FUNCTION DESCRIPTION

# IC6001 (SERVO / SYSTEM CONTROL IC)

"H"  $\geq$  4.5V, "L"  $\leq$  0V

		"H" ≥ 4.5V, "L" ≤ 0V				
Pin No.	IN/ OUT	Signal Name	Function	Active Level		
1	OUT	A-MUTE	Audio Mute Output (Mute ="H")	Н		
2	OUT	LP/SLP-PB	Special Play back Tape Speed LP or SLP mode = "H" output	Н		
3	OUT	REC-CTL	Capstan Motor Control Pulse Input at Rec Mode	H/L		
4	OUT	C-F/R	Capstan Motor FWD/REV Control Signal (Forward= "L"/Reverse= "H")	H/L		
5	OUT	C-DRIVE	Capstan Motor Drive Signal Output (Rotation= H"/Stop = "L")	Н		
6	IN	LD-C	Loading Position Detector	H/L		
7	IN	LD-A	LD-A Loading Position Detector			
8	IN	LD-B	Loading Position Detector	H/L		
9	IN	LD-D	Loading Position Detector	H/L		
10	OUT	N.U.	Not Used	-		
11	OUT	N.U.	Not Used	_		
12	OUT	ROTA	Color Phase Rotary Changeover Signal	H/L		
13	OUT	RF-SW	Video Head Switching Pulse	H/L		
14	OUT	D-PB-L	Video/Audio Instruction Signal	L		
15	-	N.C.	Not Used	-		
16		N.C.	Not Used			
17	OUT	D-V/SYNC	Dummy V-Sync Output	Н		

Pin No.	IN/ OUT	Signal Name	Function	Active Level
18	OUT	GRAY-L	"L" Output at NOSignal	L
19	OUT	D-REC-H	Video/Audio Recording Instruction Signal (Record="H")	Н
20	OUT	P-ON-L	Power-ON Control Signal	L
21	OUT	LED-P	Pulse Signal for ST/END Sensor	H/L
22	IN	AFT	Tuner AFC Voltage Signal Input	A/D
23	IN	V-ENV / REC-SW	Video DC Envelope Voltage Input /Recording Safety SW Detect	A/D
24	IN	END-S	Tape End Position Detect	A/D
25	IN	ST-S	Tape Start Position Detect	A/D
26	IN	C-MONITOR /DEW	Capstan Motor Control Voltage Monitor Input/DEWSens r Position Detect Signal Input	A/D
27	IN	KEY IN-2/ CAS-SW	A/D Key Data A/I Signal Input	
28		VREF	A VREF A/D Converter Reference Voltage Input (All: 5V)	
29	_	Vss	A Vss A/D Converter Power Supply (GND)	_
30	-	A VDD	A Vss A/D Converter Power Supply (Back Up 5V)	-
31	IN	KEY1	A/D Key Data Signal Input	A/D
32	IN	PG-DELAY /TEST	RF-SW Signal Delay Adjust Voltage Input/Test	
33	IN	S-REEL	Not Used	A/D

Pin No.	IN/ OUT	Signal Name	Function	Active Level
34	IN	T-REEL	Take Up Reel Rotation Signal	A/D
35	IN	P-DOWN-L	Power Down Detection Input	L
36	IN	C-SYNC	Composite Sync Signal Input	PULSE
37	IN	PB-CTL	Capstan Motor Control Pulse Input at Playback Mode	PULSE
38	IN	D-PG	Drum Pulse Generator Input	PULSE
39	-	GND	GND	-
40	IN	RESET	System Reset Signal (Usually= "H"/Reset= "L")	L .
41	_	Vss	Vss	-
42	_	X2	MAIN Clock 12 MHz (OUT)	_
43	-	X1	MAIN Clock 12 MHz (IN)	-
44	IN	D-FG	Drum Frequency Generator Input	PULSE
45	IN	C-FG	Capstan Frequency Generator Signal Input	PULSE
46	-	N.C.	-	-
47	OUT	CTL-GAIN	CTL Amp Gain Switching Signal	H/L
48	OUT	C-CONT	Capstan Motor Control Signal	PWM
49	OUT	D-CONT	Drum Motor Control Signal	PWM
50	OUT	LM-FWD	Loading Motor Forward Control Output	Н
51	OUT	LM-REV	Loading Motor Reverse Control Output	Н
52	-	N.C.	_	_
53	_	N.U.	Not Used	-
54	OUT	G1	Display Digit Output	Н
55	OUT	G2	Display Digit Output H	
56	OUT	G3	Display Digit Output H	
57	OUT	G4	Display Digit Output H	
58	OUT	G5	Display Digit Output	Н

Pin No.	IN/ OUT	Signal Name	Function	Active Level
59	OUT	G6	Display Digit Output	Н
60	OUT	G7	Display Digit Output	Н
61	OUT	G8	Display Digit Output	Н
62	OUT	G9	Display Digit Output	Н
63	OUT	G10	Display Digit Output	Н
64	OUT	а	Display Segment Output	Н
65	OUT	b	Display Segment Output	Н
66	OUT	С	Display Segment Output	Н
67	OUT	d	Display Segment Output	Н
68	OUT	е	Display Segment Output	Н
69	OUT	f	Display Segment Output	Н
70	OUT	g	Display Segment Output	Н
71	OUT	h	Display Segment Output	Н
72	OUT	i	Display Segment Output	Н
73	OUT	j	Display Segment Output	Н
74	_	VPS-CHK	Not Used	_
75	_	N.U.	Not Used	_
76	_	SOFT-L	Not Used	_
77	_	N.U.	Not Used	_
78	_	-28V	-28V	_
79	OUT	N.U.	Not Used	_
80	OUT	N.U.	Not Used	_
81	OUT	N.U.	Not Used	_
82	IN/ OUT	VPS-DATA	VPS IC/MEMORY IC Control (Data)	H/L
83	OUT	VPS-CLK	VPS IC/MEMORY IC Control (Clock)	H/L

1-11-1 H2110PIN 1-11-2 H2110PIN

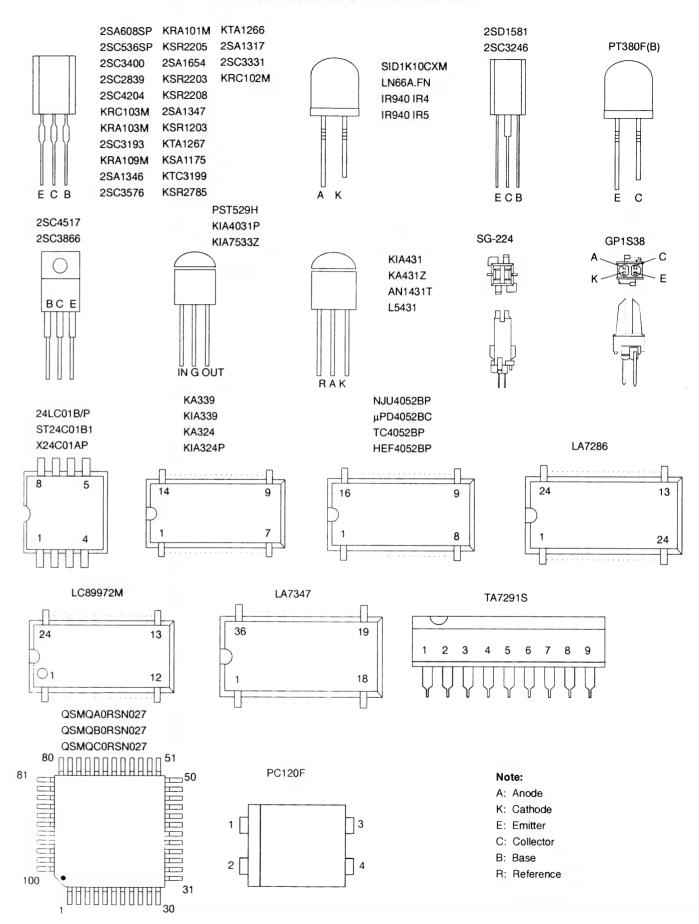
Pin No.	IN/ OUT	Signal Name	Function	Active Level
84	OUT	T-DAC	Tuner Voltage Control PWM Output	-
85	IN	REMOTE	Remote Control Input Signal	L
86	_	X'TAL2	Sub Clock 32kHz(IN)	-
87	_	X' TAL1	Sub Clock 32kHz(OUT)	-
88	_	Vss	Vss	-
89	_	VDD	Back Up 5V (VDD)	-
90	-	Vpp	Back Up 5V	_
91	-	NC	Not Used	-
92	OUT	BG/DK	Not Used	_
93	IN	N.U.	Not Used	PULSE
94	OUT	BL-L	Output for Tuner Band Selection	L
95	OUT	BH-L	Output for Tuner Band Selection	L
96	OUT	BU-L	Output for Tuner Band Selection	L
97	OUT	LP-H	Tape Speed LP Mode= " H" Output	Н
98	OUT	INSEL-1	Input Selector Control Signal 1	
99	-	N.U.	Not Used	-
100	-	N.U.	Not Used	_

### NOTE:

Abbreviation for Active Level

PWM ------ Pulse Wide Modulation A/D ----- Analog - Digital Converter

# **LEAD IDENTIFICATION**



# DECK MECHANISM SECTION

# VIDEO CASSETTE RECORDER V-8008CM(N) / V-8008SA(N)

### Sec. 2: Deck Mechanism Section

- Standard Maintenance
- Alignment for Mechanism
- Disassembly/Assembly of Mechanism
- Schematic Diagrams
- CBA's

# **TABLE OF CONTENTS**

Standard Maintenance	2-1-1
Service Fixtures and Tools	2-2-1
Mechanical Alignment Procedures	
Disassembly / Assembly Procedures of Deck Mechanism	
Alignment Procedures of Mechanism	
Schematic Diagrams and CBA's	2-5-1

# STANDARD MAINTENANCE

### **Service Schedule of Components**

H: Hours

O: Check

●: Change

Deck		Periodic Service Schedule				
Ref. No.	Parts Name	1,000 H	2,000 H	3,000 H	4,000 H	
B2	Cylinder Assembly	0	•	0	•	
В3	Loading Motor Assembly			•		
В6	Pinch Roller Arm Assembly		•		•	
B8	Pulley Assembly		•		•	
B21	Loading Belt		•		•	
B27	Band Brake Assembly		•		•	
B28	Main Brake S Assembly		•		•	
B29	Main Brake T Assembly		•		•	
B30	T Brake Arm Assembly		•		•	
B31	AC Head Assembly			•		
B32	Reel Base Assembly			•		
B37	Capstan Motor		•		•	
B52	Capstan Belt		•		•	
B54	Ground Brush Assembly			•		
B73	FE Head			•		
B86	F Brake Assembly		•		•	
B132	Clutch Assembly		•		•	
B133	Arm Idler Assembly		•		•	

### Note:

- 1. Clean all parts for the tape transport ( Upper Drum with Video Head / Pinch Roller / ACE Head / FE Head ) using 90% Isopropyl Alcohol.
- 2. After cleaning the parts, do all DECK ADJUSTMENTS.
- 3. For the reference numbers listed above, refer to Deck Exploded Views.

### Cleaning

### **Cleaning of Video Head**

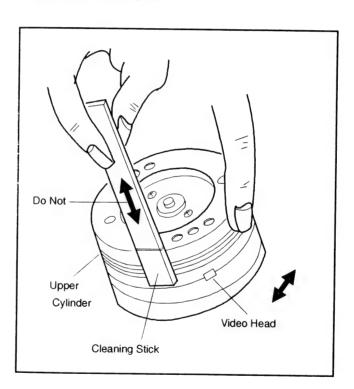
Clean the head with a head cleaning stick or chamois skin.

### **Procedure**

- 1. Remove the top cabinet.
- 2. Put on a glove (thin type) to avoid touching the upper and lower drum with your bare hand.
- Put a few drops of 90% Isopropyl alcohol on the head cleaning stick or on the chamois skin and, by slightly pressing it against the head tip, turn the upper drum to the right and to the left.

### Notes:

- The video head surface is made of very hard material, but since it is very thin, avoid cleaning it vertically.
- 2. Wait for the cleaned part to dry thoroughly before operating the unit.
- 3. Do not reuse a stained head cleaning stick or a stained chamois skin.



### **Cleaning of Audio Control Head**

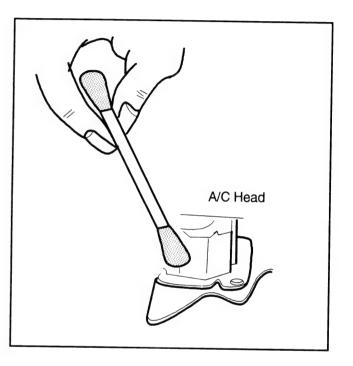
Clean the head with a cotton swab.

### Procedure

- 1. Remove the top cabinet.
- 2. Dip the cotton swab in 90% isopropyl alcohol and clean the audio control head. Be careful not to damage the upper drum and other tape running parts.

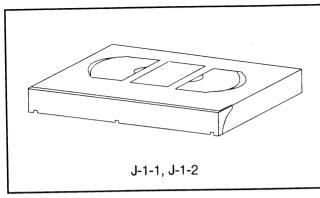
### Notes:

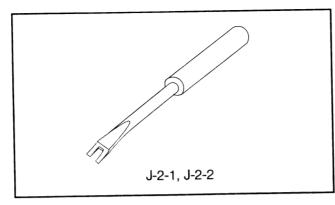
- 1. Avoid cleaning the audio control head vertically.
- 2. Wait for the cleaned part to dry thoroughly before operating the unit or damage may occur.

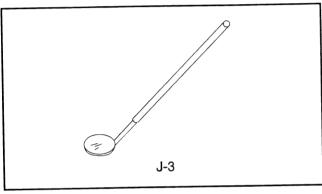


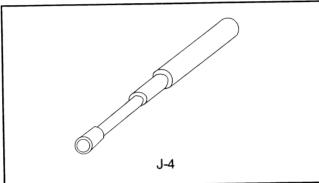
2-1-1 U9MENT 2-1-2 U9MENT

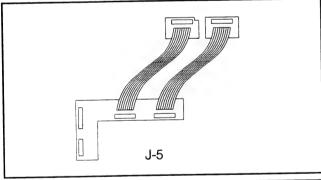
# **SERVICE FIXTURES AND TOOLS**











Ref. No.	Name	Part No.	Adjustment
J-1-1	Alignment Tape	F6-A	Head Adjustment of Audio Control Head
J-1-2	Alignment Tape	F6-N	Azimuth and X Value Adjustment of Audio Control Head / Adjustment of Envelope Waveform
J-2-1	Special Driver, Large	FSJ-0001	X Value
J-2-2	Special Driver, Small	FSJ-0006	Guide Roller
J-3	Mirror	FSJ-0004	Tape Transportation Check
J-4	Box Driver, Mx3	FSJ-0005	A/C Head Height
J-5	Deck Extention Cable	N1091XA	All Mechanical and Electrical Adjustments

### Note:

Before starting any adjustment, take the Deck Assembly out of the cabinet and use J-5 to connect the Deck Assembly with the Main CBA.

## **MECHANICAL ALIGNMENT PROCEDURES**

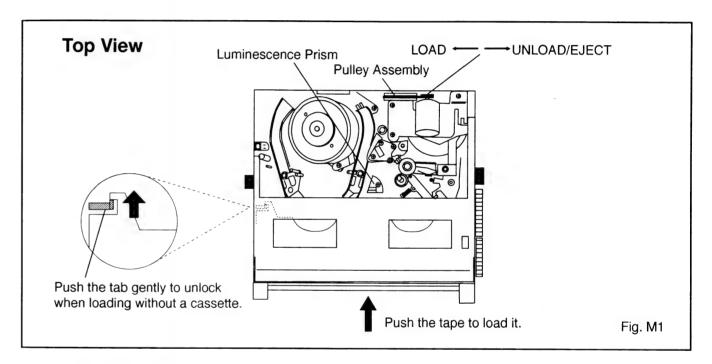
### **Service Information**

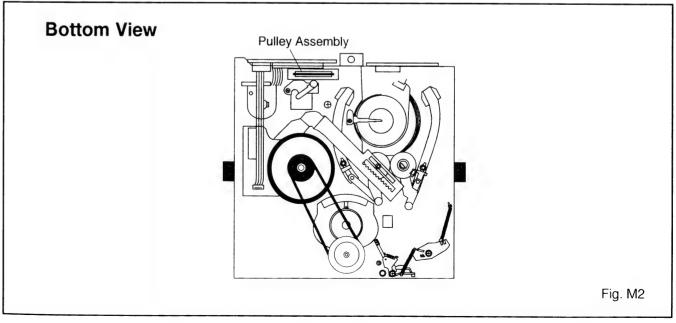
- A. Method for Manual Tape Loading/Unloading of VCR.

  To place the Cassette Holder in the down position, turn the Pulley Assembly clockwise as viewed from the back of the Deck. To place the Cassette Holder in the up position, turn the Pulley Assembly counterclockwise as viewed from the back of the Deck.
- **B.** How to place the Cassette Holder in the down position without a cassette tape.

### **METHOD**

- 1. Disconnect the AC Plug and remove the Top Cover.
- 2. Turn the Pulley Assembly clockwise as viewed from the back of the Deck.





# 1. Tape Interchangeability Alignment (Final Alignment)

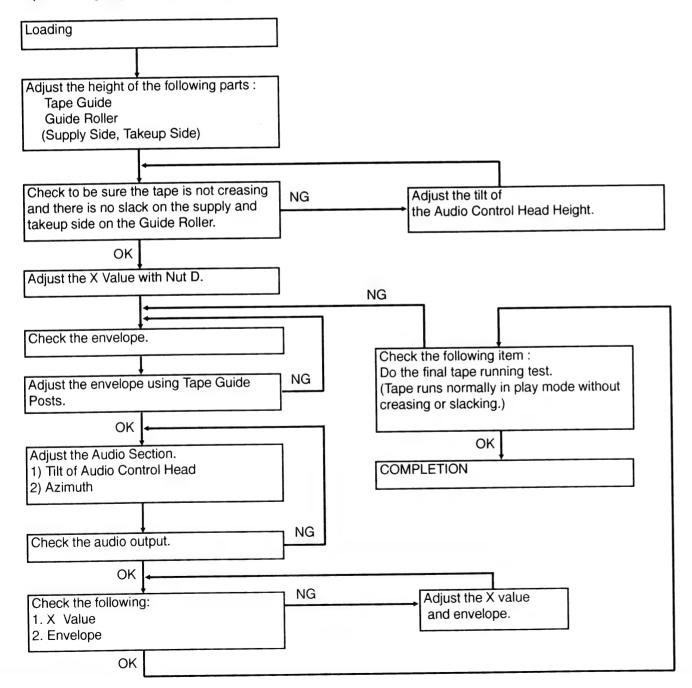
**Note:** To do these alignment procedures, be sure that the Tracking Control Circuit is set to the Neutral mode.

**Equipment required:** 

Dual Trace Oscilloscope
VHS Alignment Tape (F6-A, F6-N)
Post Alignment Screwdriver
X-Position Alignment Fixture
Screwdriver (For the Tape Guide Rollers)
Box Driver M3

**Note:** After this Mechanical Alignment is completed, secure screw [C] shown in Fig.M6 with lock paint and do all Electrical Adjustment procedures.

### Tape Running Alignment Flowchart



# 1-A. Preliminary Checking and Alignment of Tape Running

### Purpose:

To make sure that the tape running is well stabilized.

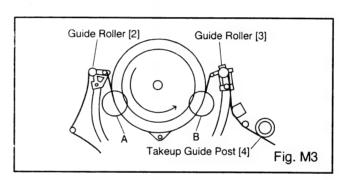
### Symptom of Misalignment:

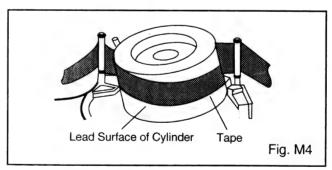
If the tape runs unstable, the tape will be damaged.

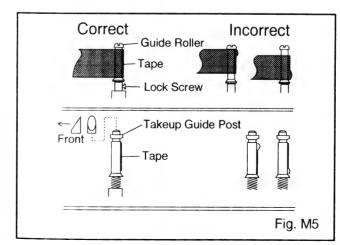
- Play back a cassette tape and check to see that the tape runs without creasing at Guide Rollers [2] and [3], and at points A and B on the lead surface. (Refer to Fig M3 and M4)
- If creasing is apparent, align the height of the guide rollers by turning the top of Guide Rollers [2] and [3] with a Post Adjustment Screwdriver. (Refer to Fig. M3 and M5)

**Note:** Before turning the Guide Rollers, loosen the Lock Screw using a lock screwdriver.

**Note:** Do not use an Alignment Tape for this procedure. If the unit is not correctly aligned, the tape may be damaged.







### 1-B. Preliminary Checking of Audio/ Control Head Height

### Purpose:

To make sure that the tape runs properly along the Control Head.

### Symptom of Misalignment:

If the control signal is not properly picked up, proper Servo Operation cannot be achieved.

The head height adjustment is required when the Audio/Control Head is replaced.

For final alignment, do the adjustments described in 1-C and 1-D.

**Note:** Play back a cassette tape. Looking at the lower edge of the Control Head with the tape in motion, make sure that the lower edge of the tape runs 0.15~0.25mm above the lower edge of the Control Head. If it does not run properly, turn Height Adjustment Nut [A] slightly in either direction as necessary to correct it. Turn clockwise, as viewed from the top, to lower the head and counterclockwise to raise it. (Refer to Fig. M6 and M7.)

# 1-C. Preliminary Checking of Tilt of Audio/Control Head

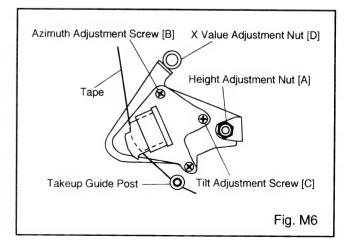
### Purpose:

To confirm that the tape running is well stabilized, confirm that the signals on the tape are properly picked up by the Audio Head at the upper part and by the Control Head at the lower part.

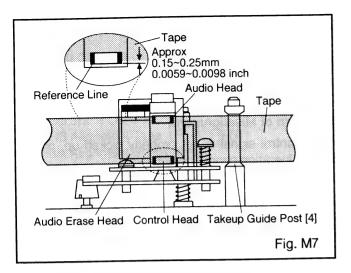
### Symptom of Misalignment:

If the tilt of the Audio/Control Head is poorly aligned, the tape will eventually be damaged.

Play back a cassette tape and confirm that there is no tape slack between Takeup Guide Post [4] in Fig. M3 and the Audio/Control Head. If there is any slack, align the Audio/Control Head by turning tilt adjustment screw [C] in Fig. M6 so that the tape has no slack.



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### 1-D. Final Alignment of Audio/ Control Head Height

### Purpose:

To align the position and height of the Audio/Control Head so that it meets the tape tracks properly.

### **Symptom of Misalignment:**

If the position of the Audio/Control Head is not properly aligned, the Audio S/N Ratio or Frequency Response will be poor.

- 1. Connect the oscilloscope to the audio output jack on the rear side of the deck.
- 2. Confirm that there is no tape slack between the Takeup Guide Roller and the Audio/Control Head. If there is any tape slack, remove it by turning Tilt Adjustment screw [C]. Then realign the height of the Guide Rollers (Refer to 1-A).
- 3. Play back the Color Bar (1kHz, Audio) on the alignment tape (F6-A) and confirm that the audio signal output level is 1kHz. Finally, adjust Height Adjustment Nut [A] so that the output level is at maximum.(Fig. M6, Fig. M8[b])
- Adjust Azimuth Adjustment Nut [B] so that the output level on the AC Voltmeter is at maximum. (Fig. M6)

**Note:** Secure screw [C] with lock paint after realignment.

# Azimuth Alignment of Audio/Control Head Purpose:

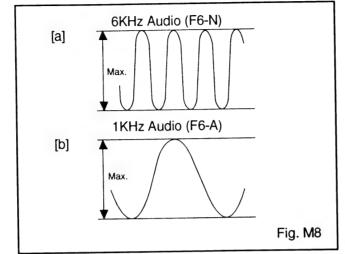
To correct the Azimuth alignment so that the Audio/Control Head angle meets tape tracks properly.

### **Symptom of Misalignment:**

If the position of the Audio/Control Head is not properly aligned, the Audio S/N Ratio or Frequency Response will be poor.

1. Connect the oscilloscope to the audio output jack on the rear side of the deck.

Play back the Gray Scale (6kHz, audio) on the alignment tape (F6-N), and adjust Height Adjustment
Nut [A] so that the output level on the AC Voltmeter or the waveform of the oscilloscope is at maximum. (Fig. M6, Fig. M8[a])



### 1-E. X Value Alignment

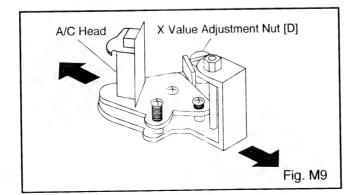
### Purpose:

To align the Horizontal Position of the Audio/Control Head

### **Symptom of Misalignment:**

If the Horizontal Position of the Audio/Control Head is not properly aligned, maximum envelope cannot be obtained at the Neutral mode of the Tracking Control Circuit.

- Set the Tracking Control Circuit to the Neutral mode by pressing CH UP and DOWN buttons on VCR simultaneously.
- Connect the oscilloscope to TP of C-PB on the Main CBA. Use TP of RF-SW as a trigger.
- Play back the Gray Scale of the Alignment Tape (F6-N) and confirm that the PB FM signal is present.
- Adjust X Value adjustment Nut [D] with the X Position Adj-Fixture so that the PB FM signal at the TP of C-PB or at the TP of A-OUT is maximum. (Fig.M9)



### 1-F. Final Checking/Adjustment of Envelope Waveform

### Purpose:

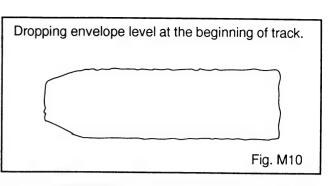
To achieve a satisfactory picture and precise tracking.

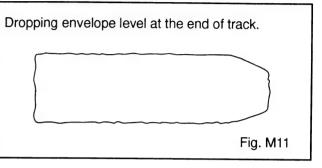
### Symptom of Misalignment:

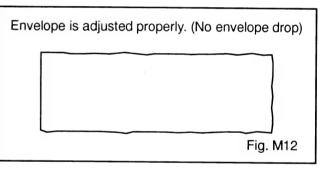
If the envelope output is poor, noise will appear in the picture. The tracking will then lose precision and the playback picture will be distorted by any slight variation of the Tracking Control.

- Set the Tracking Control Circuit to the Neutral mode by pressing both CH UP and DOWN buttons on VCR simultaneously.
- 2. Connect the oscilloscope to TP of C-PB on the Main CBA. Use TP of RF-SW as a trigger.
- 3. Play back the Gray Scale on the Alignment Tape (F6-N). Adjust the height of Guide Rollers [2] and [3] (Fig.M3) watching the oscilloscope display so that the envelope becomes as flat as possibile. If adjustment is required, turn the top of the Guide Roller with the Post Adjustment Screwdriver.
- When the envelope is as shown in Fig. M10, adjust the height of Guide Roller [2] (Refer to Fig.M3) so that the waveform looks like the one shown in Fig. M12.
- When the envelope is as shown in Fig. M11, adjust the height of Guide Roller [3] (Refer to Fig.M3) so that the waveform looks like the one shown in Fig. M12.
- When Guide Rollers [2] and [3] (Refer to Fig.M3) are aligned properly, there is no envelope drop either at the beginning or end of track as shown in Fig. M12.

Note: Upon completion of the adjustment of Guide Rollers [2] and [3] (Refer to Fig.M3), tighten the Lock Screws on these Guide Rollers [2] and [3], using a lock screw wrench. Then check the X VALUE by pushing the Tracking Control Up or Down buttons alternately, to check the symmetry of the envelope. If required, redo the "X VALUE ALIGNMENT." Secure screw [C] shown in Fig.M6 with lock paint.







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# DISASSEMBLY/ASSEMBLY PROCEDURES OF DECK MECHANISM

# **Main Mechanism**

Before following the procedures described below, be sure to:

- Remove the deck assembly from the cabinet. (Refer to CABINET DISASSEMBLY INSTRUCTIONS in Section 1.)
- 2. Remove Front Loading Assembly from the main mechanism of the deck assembly. (See Fig. DM1.)

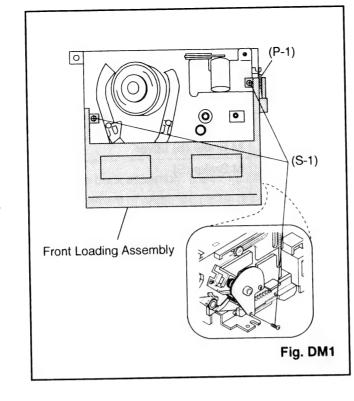
All the following procedures, including those for adjustment and replacement of parts, should be done in Eject mode; see the positions of [32] and [33] in Fig. DM3 on page 2-4-4. When reassembling, follow the steps in reverse order.

STEP	START-	PART		REMOVAL		INSTALLATION
/LOC. No.	ING No.			Fig. No.	REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	ADJUSTMENT CONDITION
[1]	[1]	Motor Holder Assembly	Т	DM3 DM5 DM6	3(S-2), *(P-2) Loading Belt	(+) Refer to Alignment Sec. Pg. 2-4-11.
[2]	[1]	Loading Motor Assembly	Т	DM2 DM3 DM5	2(S-3), CN2902	
[3]	[1]	Cassette Drive Lever Assembly	Т	DM3 DM5		(+) Refer to Alignment Sec. Pg. 2-4-11.
[4]	[1]	Pinch Roller Arm Assembly	Т	DM3 DM5	(C-1) Pinch Roller Spring	Refer to Alignment Sec. Pg. 2-4-11.
[5]	[1]	Pinch Arm Assembly	Т	DM3 DM5		Refer to Alignment Sec. Pg. 2-4-11.
[6]	[6]	Mode SW CBA	В	DM4 DM8	*(L-1), Stopper Boss	
[7]	[7]	Joint CBA	T/B	DM2 DM3 DM4 DM7 DM8	(S-4), CN2801 CN2902, *CL2901 CL2902	
[8]	[1]	Cam	Т	DM3 DM5		(+) Refer to Alignment Sec. Pg. 2-4-11.
[9]	[1]	Pulley Assembly	Т	DM3 DM6	(W-1), Loading Belt	(+)
[10]	[10]	Head Amp CBA	T/B	DM2 DM3 DM4 DM8	(S-5), (S-6), CN02, CN03, CL02	
[11]	[11]	Arm Idler Assembly	Т	DM3 DM9	Clutch Bushing	(+)
[12]	[12]	Clutch Assembly	В	DM4 DM9	(C-2), (W-2) Capstan Belt	
[13]	[9]	Capstan Motor Unit	В	DM4 DM10	3(S-7)	
[14]	[1]	M Lever Holder	Т	DM3 DM11	(S-8)	
[15]	[1]	Kick Arm Holder	В	DM4 DM11	Kick Arm Spring	
[16]	[15]	Kick Arm	В	DM4 DM11	Bushing	
[17]	[17]	Mode Change Lever	T	DM3 DM12	*2(L-2)	(+)
[18]	[1]	Main Lever Assembly	Т	DM3 DM15	*(L-3)	
[19]	[19]	Tape Guide Assembly	Т	DM3 DM15	*(P-3), *(L-4)	Keep the distance specified in Fig. DM15.
[20]	[20]	ACE Head Assembly	Т	DM3 DM14	Nylon Nut Head Height Adjustment Spring	Keep the distances specified in Fig. DM14.

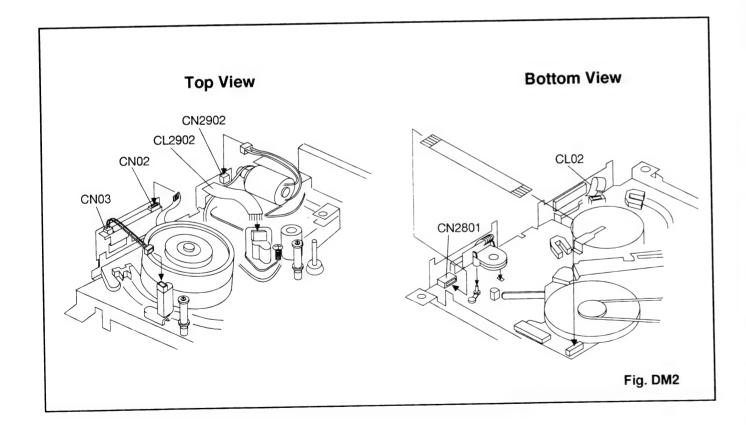
STEP					REMOVAL	INSTALLATION
/LOC. No.	No.	PART		Fig. No.	REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	ADJUSTMENT CONDITION
[21]	[21]	Tension Lever Sub Assembly	T B	DM3 DM13 DM22	*(L-5) *(P-7)	
[22]	[21]	Band Brake Sub Assembly	Т	DM3 DM13	(S-9), *(L-6)	
[23]	[17]	M Brake (S) Lever	Т	DM3 DM16		
[24]	[17]	M Brake (S)	T	DM3 DM16	*(P-4), *(L-7)	When reassembling, hook the spring (P-4) after installation of Mode Change Lever.
[25]	[17]	S Brake Arm	T	DM3 DM16	*(P-5)	When reassembling, hook the spring (P-5) after installation of Mode Change Lever.
[26]	[17]	M Brake (T) Assembly	T	DM3 DM16		
[27]	[17]	T Brake Arm Assembly	T	DM3 DM16	*(P-6)	When reassembling, hook the spring (P-6) after installation of Mode Change Lever.
[28]	[17]	Reel Base Assembly T	Т	DM3 DM17	Poly Slider Washer	(+)
[29]	[17]	Reel Base Assembly S	T	DM3 DM17	Poly Slider Washer	(+)
[30]	[30]	Ground Brush Assembly	В	DM4 DM18 DM19	(S-10)	Refer to Alignment Sec. Pg. 2-4-11.
[31]	[10],[30] Only	Cylinder Assembly	Т	DM3 DM18	3(S-11)	Refer to Alignment Sec. Pg. 2-4-11.
[32]	[1]	Moving Guide Assembly	T	DM3 DM20		
[33]	[1]	Moving Guide T Assembly	T	DM3 DM20		
[34]	[34]	FE Head	Т	DM3 DM20	(S-12)	
[35]	[35]	Main Prism	T	DM3 DM20	(S-13)	·
[36]	[1]	Loading Arm M Assembly	В	DM4 DM21	(C-3)	(+) Refer to Alignment Sec. Pg. 2-4-11.
[37]	[1]	Loading Gear A	В	DM4 DM21		(+) Refer to Alignment Sec. Pg. 2-4-11.
[38]	[1]	Loading Gear B	В	DM4 DM21		(+) Refer to Alignment Sec. Pg. 2-4-11.
[39]	[39]	Spring Supporter	В	DM4 DM22	(S-14)	
[40]	[39]	BT Drive Arm	В	DM4 DM22	(S-15), *(P-7), *(P-8)	
[41]	[41]	Rec Arm	В	DM4 DM22	(S-16)	
*[42]	[42]	Cleaning Head	Т	DM3	(C-4)	
1	2	3	4	(5)	6	7

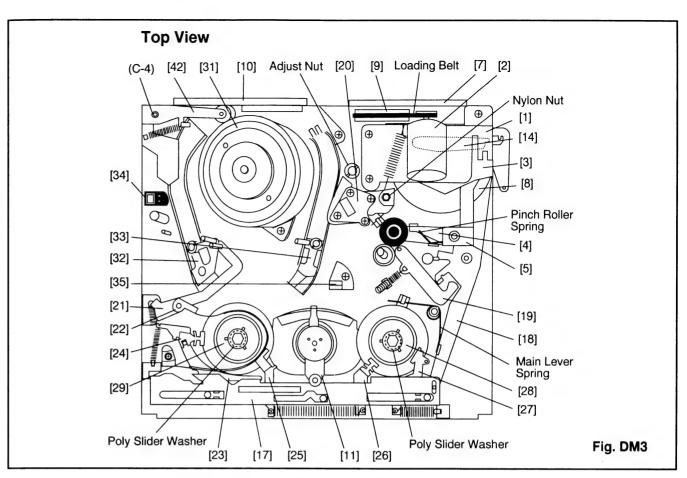
- 1: Follow steps in sequence. When reassembling, follow the steps in reverse order.

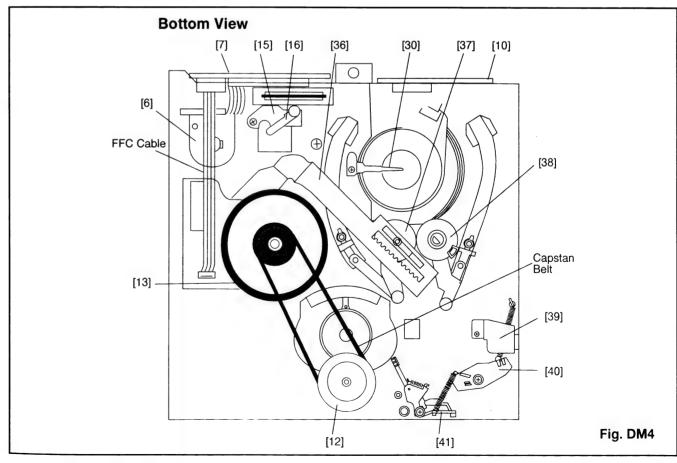
  These numbers are also used as identification (location) No. of parts in the figures.
- 2: Indicates the part to start disassembling with in order to disassemble the part in column (1).
- (3): Name of the part
- 4: Location of the part
  T=Top B=Bottom R=Right L=Left
- (5): Figure Number
- 6: Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.
  - P=Spring, W=Washer, C=Cut Washer, S=Screw L=Locking Tab
  - \*=Unhook, Unlock, Release, Unplug, or Desolder e.g. 2(C-2) = two Cut Washers (C-2)
    - 2(L-2) = two Locking Tabs (L-2)
- 7: Adjustment Information for Installation
  - (+): Refer to Deck Exploded Views for lubrication information.



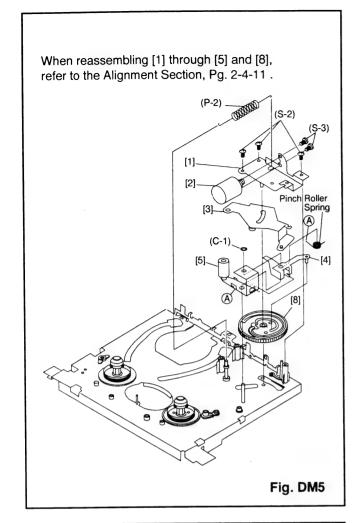
\*[42]....For Head Cleaner models only

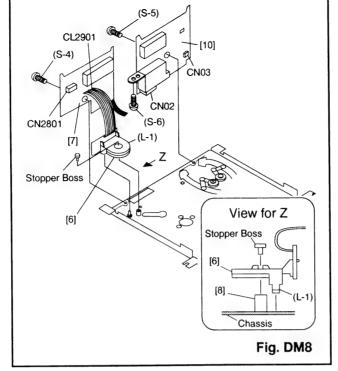


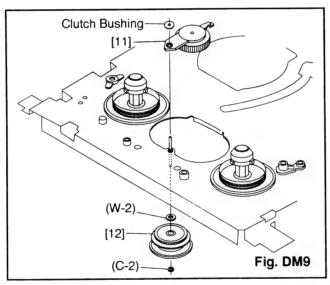


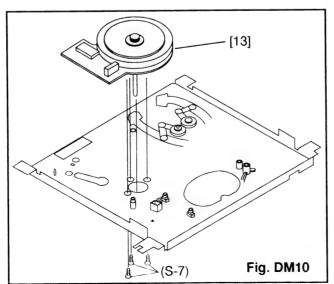


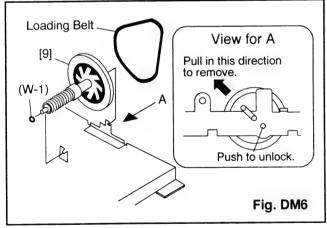
2-4-3 U9DA2HC 2-4-4 U9DA2HC

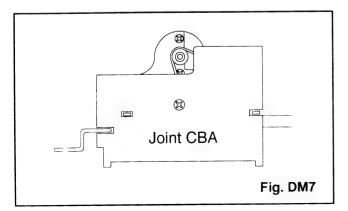


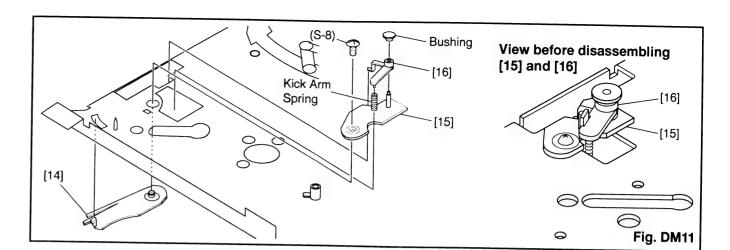


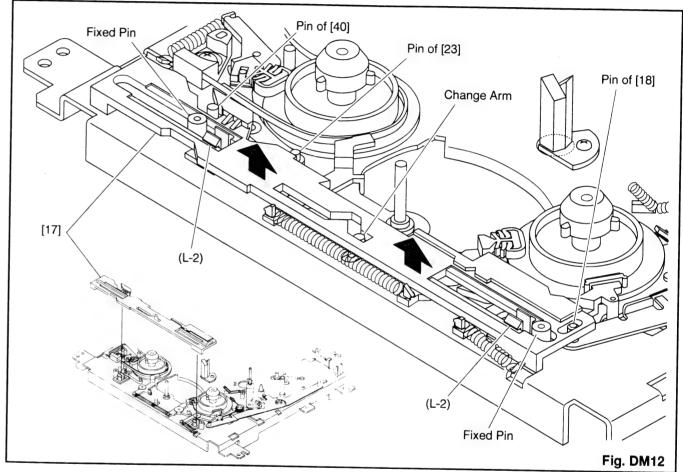


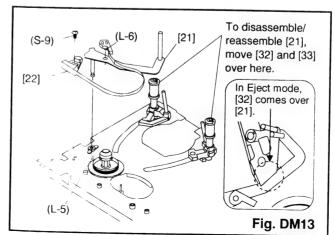


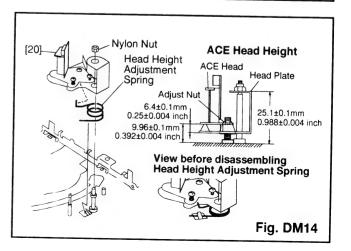




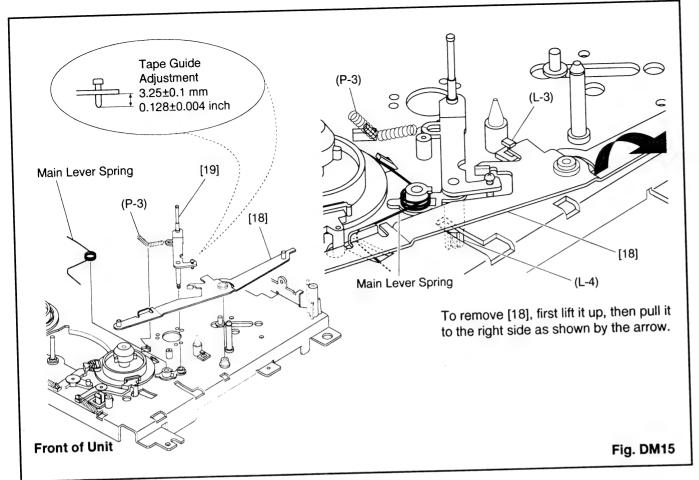


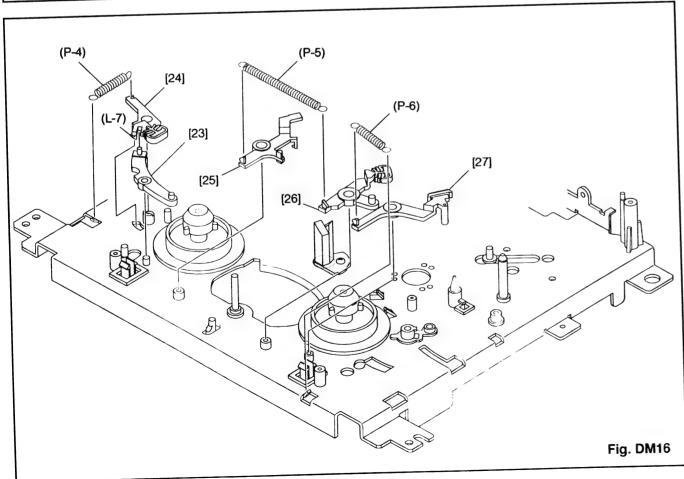


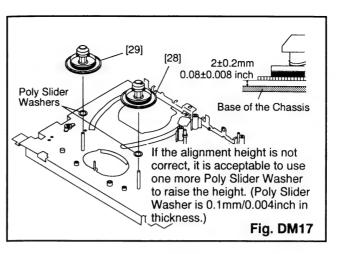


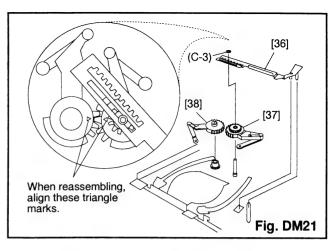


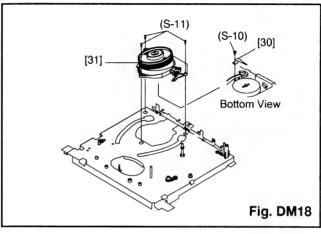
2-4-5 U9DA2HC 2-4-6 U9DA2H\_2

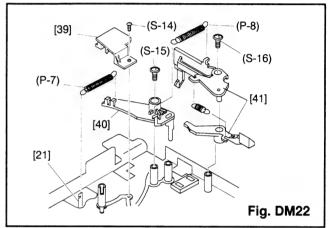


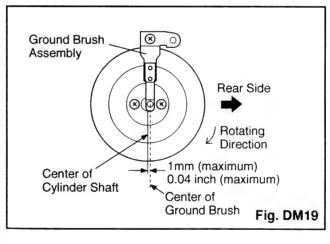


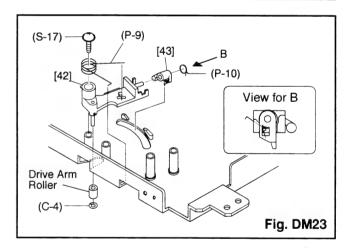


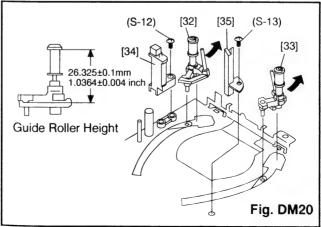












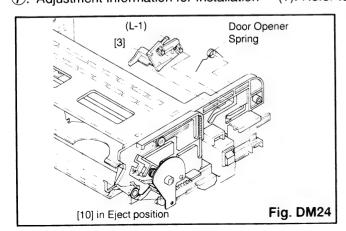
2-4-7 U9DA2H\_2 2-4-8 U9DA2H\_2

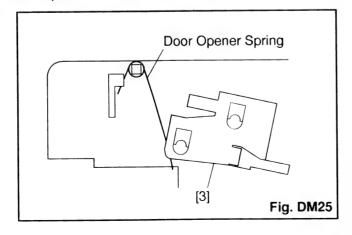
## **Front Loading Assembly**

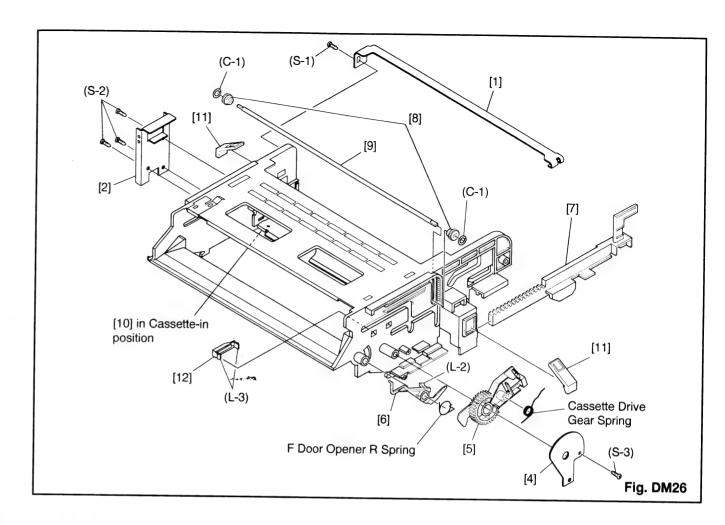
Before following the procedures described below, be sure to remove Front Loading Assembly from the main mechanism of the deck assembly. (See Fig. DM1.) When reassembling, start with the unit in Cassette-in mode and follow the steps in reverse order.

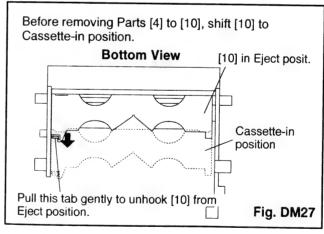
STEP	START-			REMOVAL		INSTALLATION
/LOC. No.	ING No.	PART		Fig. No.	REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	ADJUSTMENT CONDITION
[1]	[1]	Deck Plate	T	DM26	(S-1)	
[2]	[2]	Gear Supporter	L	DM26	3(S-2)	
[3]	[3]	Door Opener	R	DM24 DM25	*(L-1) Door Opener Spring	
[4]	[3]	Drive Gear Reinforcement	R	DM26 DM27	(S-3)	
[5]	[3]	Cassette Drive Gear	R	DM26 DM27 DM28	Cassette Drive Gear Spring	
[6]	[3]	F Door Opener R	R	DM26	*(L-2) F Door Opener R Spring	
[7]	[3]	Rack	R	DM26 DM28		
[8]	[3]	Slider Gear (2 pieces)	Т	DM26	2(C-1)	(+)
[9]	[3]	Slider Shaft	Т	DM26		
[10]	[3]	Cassette Holder Assembly	Т	DM26 DM27 DM29		
[11]	[11]	Mirror Holder (2 pieces)	L/R	DM26		
[12]	[12]	Release Bush (Holder)	R	DM26	*2(L-3)	
1	2	3	4	5	<b>6</b>	<del>•</del>

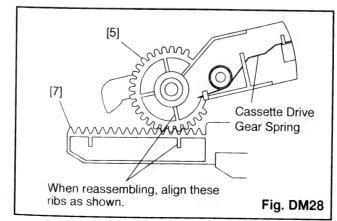
- ①: Follow steps in sequence. When reassembling, follow the steps in reverse order. These numbers are also used as identification (location) No. of parts in the figures.
- 2: Indicates the part to start disassembling with in order to disassemble the part in column 1.
- 3: Name of the part
- 4: Location of the part: T=Top B=Bottom R=Right L=Left
- (5): Figure Number
- ⑥: Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered. P=Spring, W=Washer, C=Cut Washer, S=Screw, \*=Unhook, Unlock, Release, Unplug, or Desolder e.g. 2(C-2) = two Cut Washers (C-2), 2(L-2) = two Locking Tabs (L-2)
- (+): Refer to Deck Exploded Views for lubrication information.

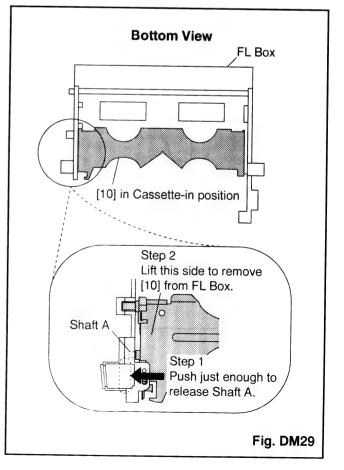












2-4-9 U9FL 2-4-10 U9FL

# ALIGNMENT PROCEDURES OF MECHANISM

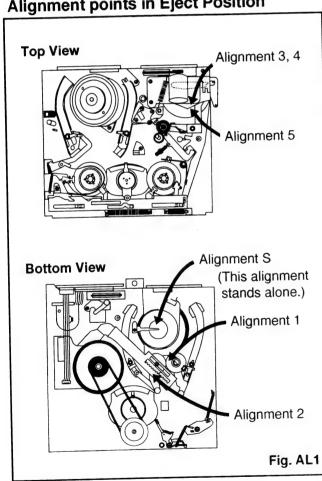
The following procedures describe how to align the individual gears and levers that make up the tape loading/unloading mechanism. Since information about the state of the mechanism is provided to the System Control Circuit only through the Mode Switch, it is essential that the correct relationship between individual gears and levers be maintained.

All alignments are to be performed with the mechanism in Eject mode, in the sequence given. Each procedure assumes that all previous procedures have been completed.

### IMPORTANT:

If any one of these alignments is not performed properly, even if off by only one tooth, the unit will unload or stop and it may result in damage to the mechanical or electrical parts.

## Alignment points in Eject Position



### Alignment 1

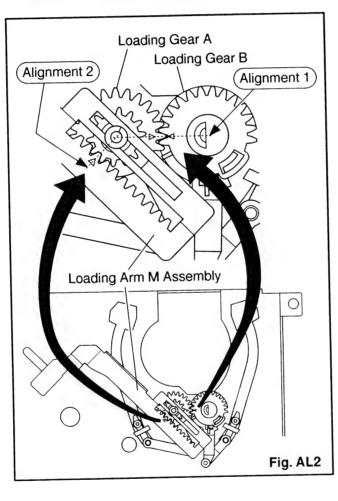
# Loading Gears, A and B

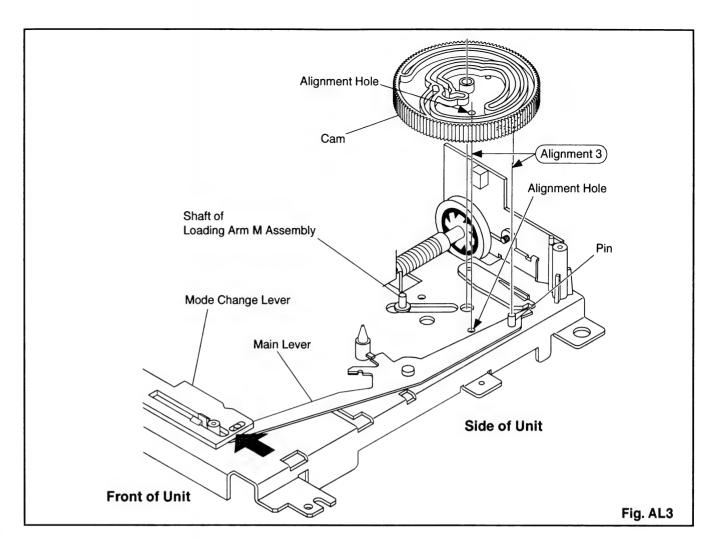
1. Install Loading Gears A and B so that their triangle marks point to each other as shown in Fig. AL2.

### Alianment 2

### Loading Arm M Assembly

1. Keeping Alignment 1 correct with the two triangles pointing to each other, install Loading Arm M Assembly so that its tooth with yet another triangle mark is in the position to align with Loading Gear A and the center of the shaft. See Fig. AL2.





### Alianment 3

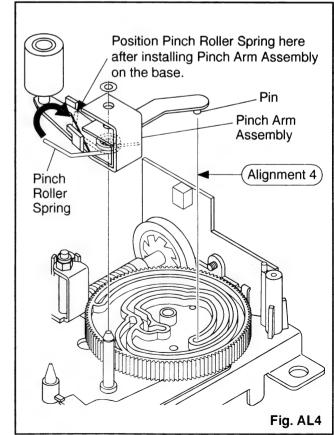
### Cam

- 1. Make sure that the mechanism is in Eject mode so that the shaft of Loading Arm M Assembly is in the position shown in Fig. AL3.
- 2. Align the alignment hole of Cam with the alignment hole of the base, holding Cam just above the base.
- 3. Carefully keeping these two holes aligned, install Cam while pushing Mode Change Lever in the direction of the arrow. Mode Change Lever must be pushed to make the pin on Main Lever fit in the proper groove in lower Cam.
- 4. After installing Cam, make sure that the alignment hole of Cam is still aligned with the base hole and that the pin on Main Lever is inserted into the proper groove of lower Cam as specified in Fig. AL3.

### Alignment 4

### **Pinch Roller Arm Assembly**

1. Ensure that the pin of Pinch Roller Arm Assembly is positioned in the end of the groove of upper Cam as shown in Fig. AL4.

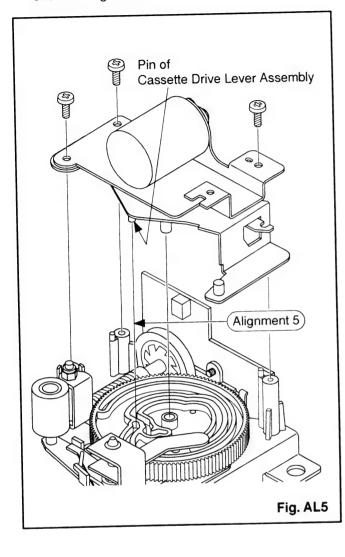


U9APM2H 2-4-12 U9APM2H 2-4-11

### Alignment 5

### **Cassette Drive Lever Assembly**

1. Ensure that the pin of Cassette Drive Lever Assembly is positioned in the groove of upper Cam as shown in Fig. AL5.



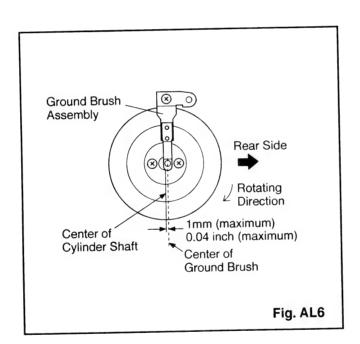
### Alignment S

This alignment can be performed independently of any other alignment.

### **Ground Brush Assembly**

- 1. Check to see if Ground Brush Assembly is properly set in a position equal to or just less than 1mm (0.04 inch) (but never more than 1 mm or 0.04 inch), as measured from the center of the brush to the center of the Cylinder Shaft as shown in Fig. AL6.
- 2. If this measurement exceeds 1mm (0.04 inch), loosen and refasten the screw of Ground Brush Assembly. If this is not enough and further adjustment is necessary, loosen and refasten the three screws of Cylinder Assembly. These three screws are shown in Fig. DM18 in DISASSEMBLY/ASSEM-BLY PROCEDURES OF DECK MECHANISM.

Note: DO NOT install Ground Brush Assembly in the opposite position (on the left side of the center of the Cylinder shaft), but always within a maximum of 1mm (0.04 inch) to the right side of the center of this shaft.



# **SCHEMATIC DIAGRAMS AND CBA'S**

### Standard Notes

### **WARNING**

Many electrical and mechanical parts in this chassis have special characteristics. These characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the mark " A " in the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

### **Capacitor Temperature Markings**

Mark	Capacity	Standard	Temperature
	change rate	temperature	range
(B)	±10%	20°C	-25~+85°C
(F)	+30 -80%	20°C	-25~+85°C
(SR)	±15%	20°C	-25~+85°C
(Z)	+30 -80%	20°C	-10~+70°C

### Note:

- 1 Do not use the part number shown on these drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since these drawings were prepared.
- <sup>2</sup> All resistance values are indicated in ohms (K=10<sup>3</sup>.
- 3 Resistor wattages are 1/5W or 1/6W unless otherwise specified.
- 4 All capacitance values are indicated in uF  $(P=10^{-6}\mu F)$ .
- 5 All voltages are DC voltages unless otherwise spec-
- 6 Electrical parts such as capacitors, connectors, diodes, IC's, transistors, resistors, switches, and fuses are identified by four digits. The first two digits are not shown for each component. In each block of the diagram, there is a note such as shown below to indicate these abbreviated two digits.

TUNER BLOCK SYMBOL NO. 70\*\*

Example: "C08" in this "TUNER BLOCK" is C7008.

Schematic Diagram Symbols

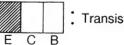
Digital Transistor

### Capacitors and transistors are represented by the following symbols.

**CBA Symbols** 

(Top View) (Bottom View) Electrolytic Capacitor

(Bottom View)



Transistor or Digital Transistor



**NPN Transistor** 



**PNP Transistor** 



ECB

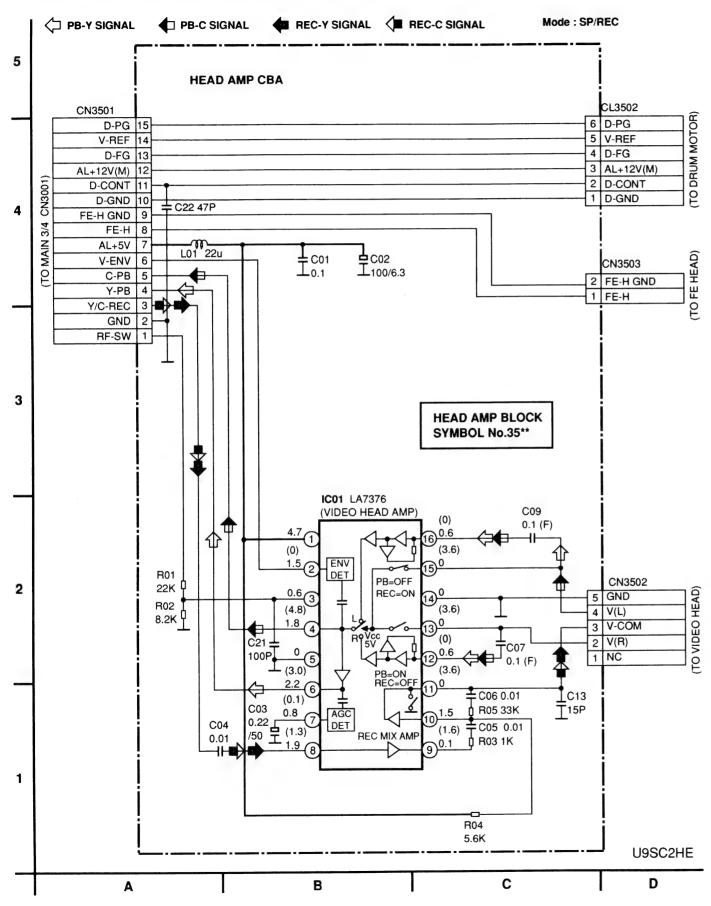
NPN Digital Transistor



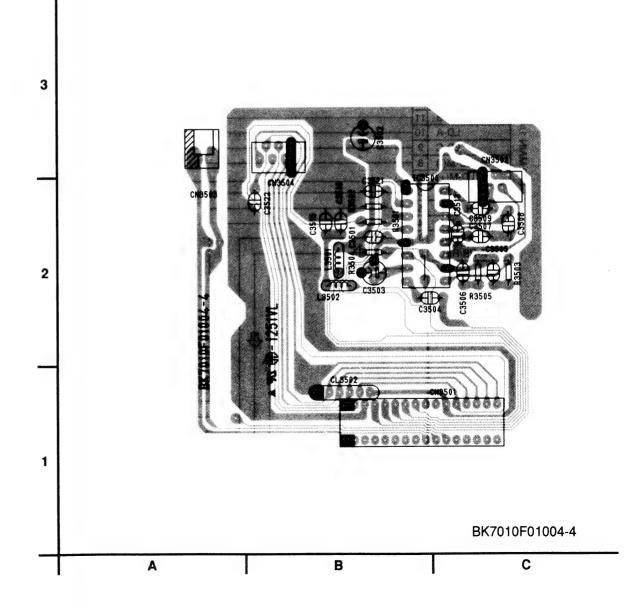
PNP Digital Transistor

U9APM2H 2-4-13

## **Head Amp Schematic Diagram**



## **Head Amp CBA Top View**



#### Joint/Mode SW/Ace Head Schematic Diagram PB-A SIGNAL REC-A SIGNAL **JOINT CBA** ACE Head CBA(Top View) CN2801 Mode SW CBA(Top View) 5 9 AL+5V 8 C-F/R 7 C-FG 6 V-REF 5 C-CONT 4 I- LIMIT 3 AL+12V(M) 4 94 A-R4 2 CM GND 1 FG GND R2801 R2802 27K 27K BK7010F01002-B BK7010F01002-C CN2901 AL+5V 20 C-F/R 19 C-FG 18 V-REF 17 3 C-DRIVE 16 AL+12V(M) 1 FG GND 1 CL2901 SW2901 3 Jont CBA(Top View) CM GND LD-D LD-D 12 4 LD-GND LOADING LD-B 11 3 LD-B SWITCH LD-A 10 2 LD-A LD-C 9 1 LD-C LD-M(-) 8 LD-M(+) 7 CN2902 MODE SW CBA CTL 6 CTL GND 5 CN2902 AE-H 4 LD-M(-) **-**□- R2802 (TO LOADING MOTOR) 2 AE-H GND 3 2 LD-M(+) A-PB/REC 2 -□- R2801 ⊙ 2 A-COM CL 2901 CN2903 CL2902 CN2901 6 CTL 5 CTL GND 4 AE-H 3 AE-H GND 2 A-PB/REC 1 A-COM **ACE HEAD** CBA

U9SCJ

C

В

BK7010F01002-A

В

# EXPLODED VIEWS AND PARTS LIST SECTION

## **VIDEO CASSETTE RECORDER**

V-8008CM(N) / V-8008SA(N)

Sec. 3: Exploded views and Parts List Section

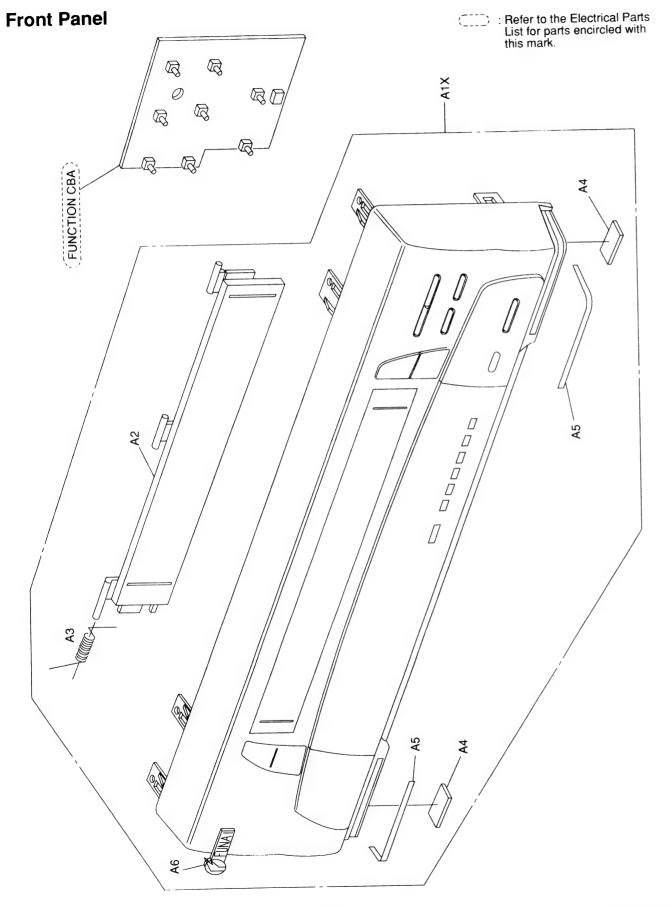
- Exploded views
- Parts List

#### **TABLE OF CONTENTS**

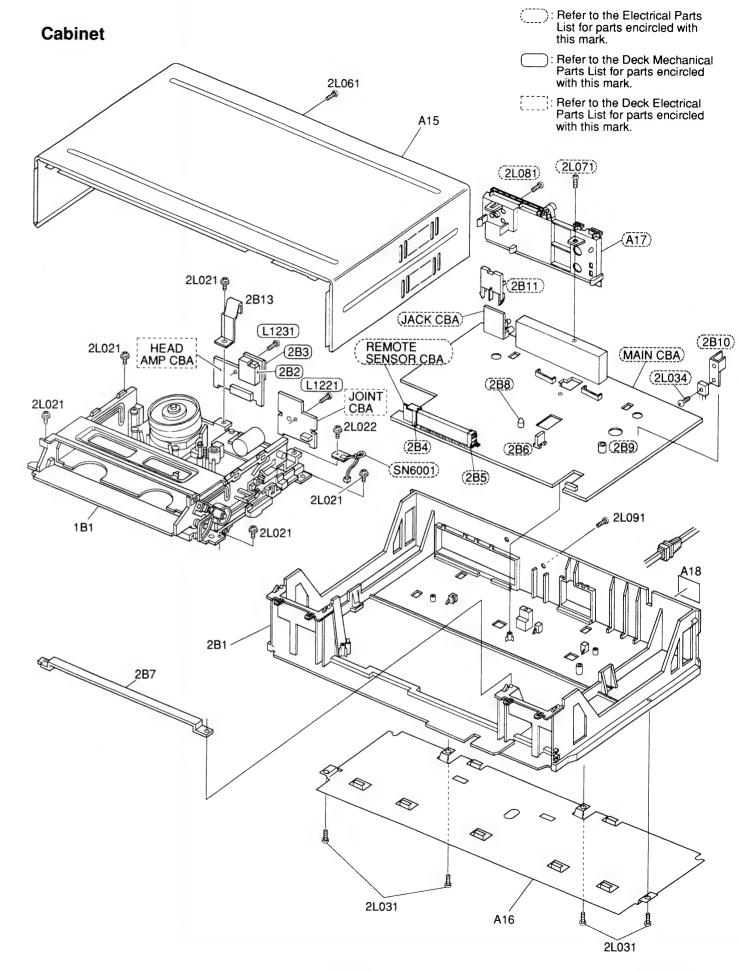
Exploded Views	3-1-1
Mechanical Parts List	
Electrical Parts List	
Deck Mechanical Parts List	
Deck Electrical Parts List	

V2400CVR

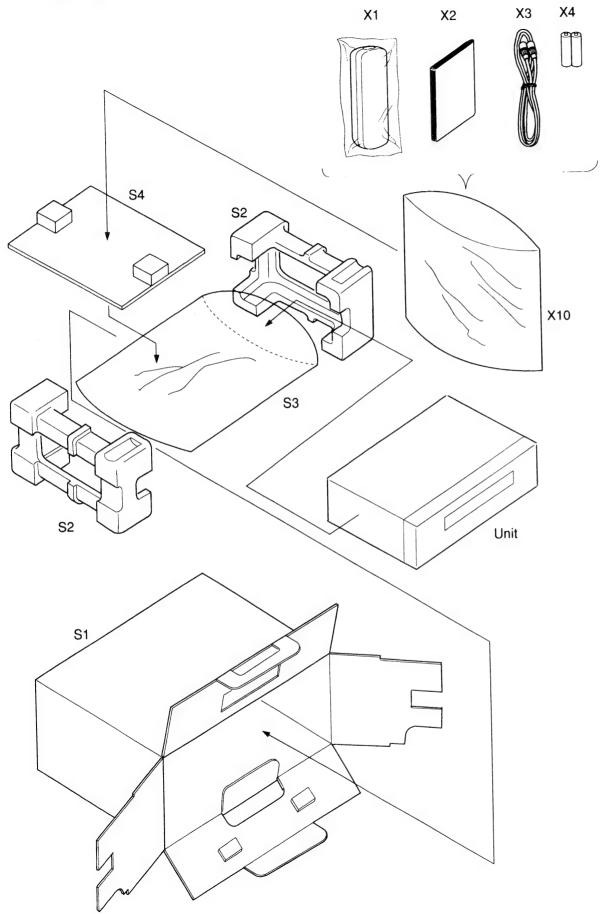
## **EXPLODED VIEWS**

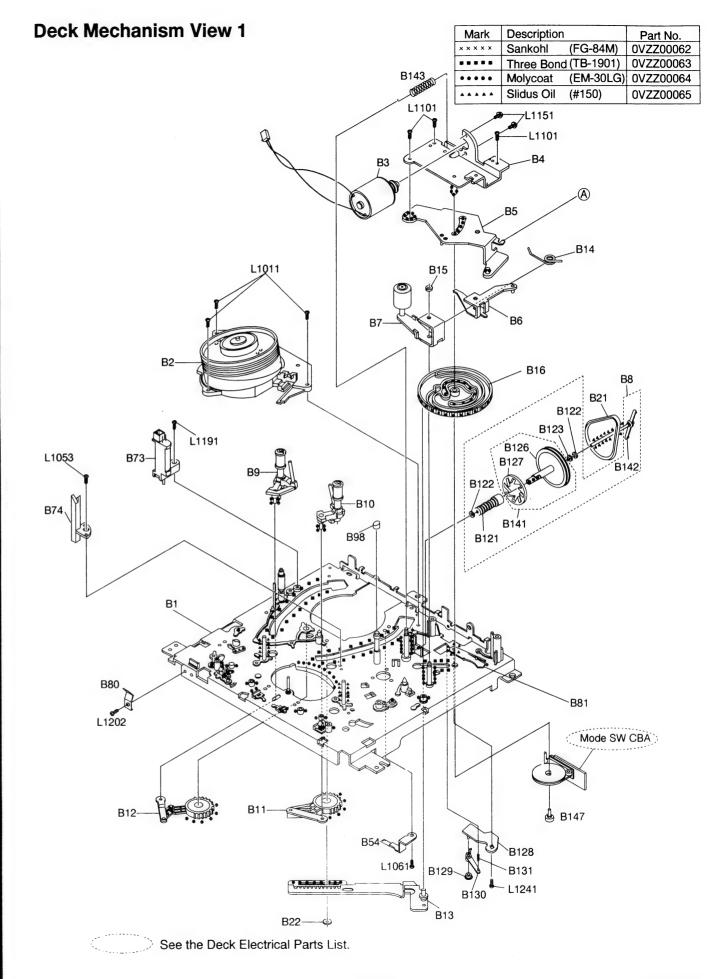


3-1-1





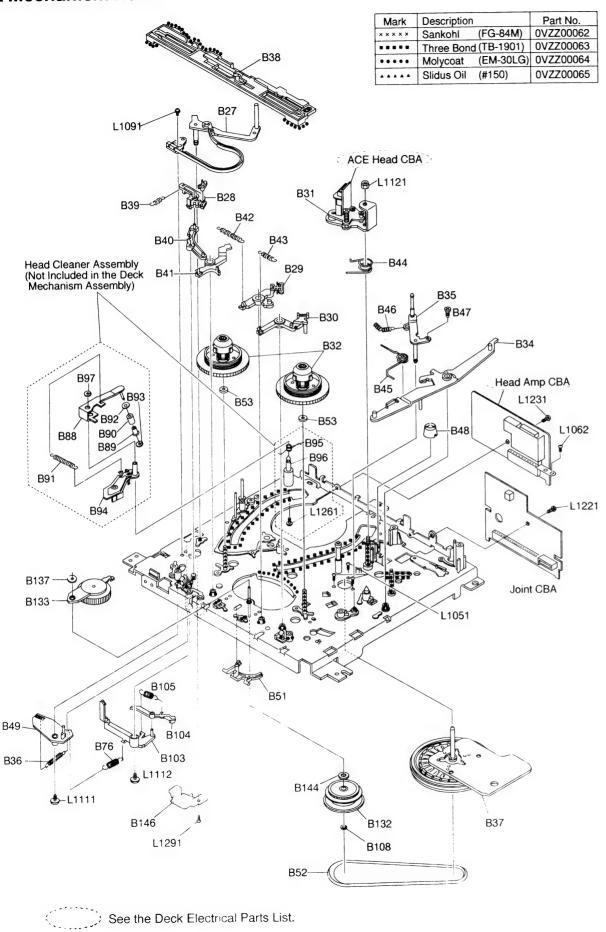




V2400PEX

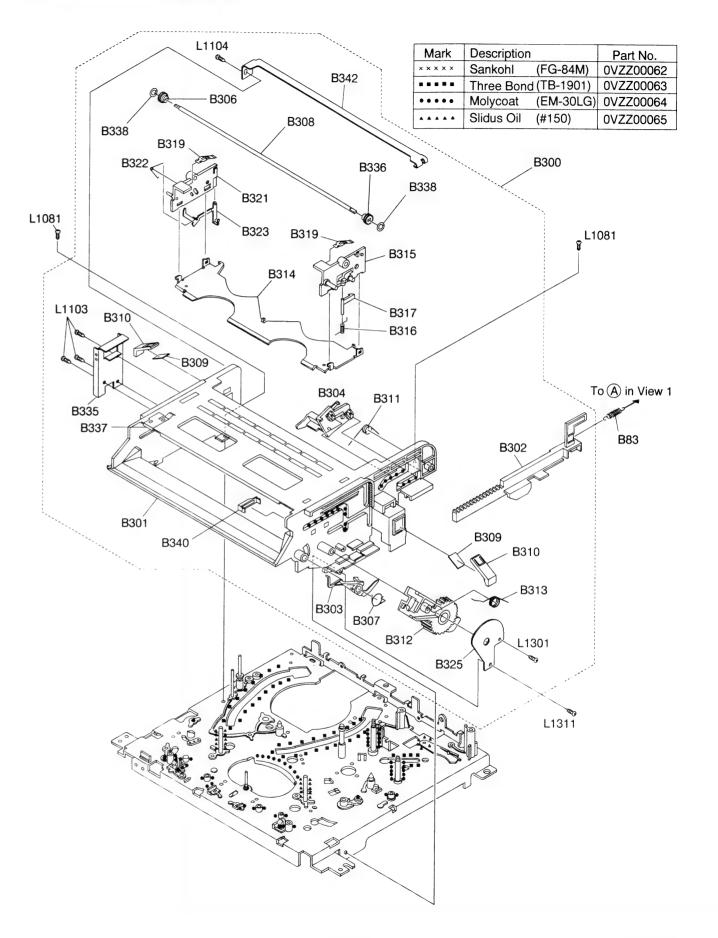
3-1-4 U9EX2HC

#### Deck MechanismView 2



3-1-5

#### **Deck Mechanism View 3**



U9EX2HC 3-1-6 U9EX2HC

## **MECHANICAL PARTS LIST**

have special characteristics important to safety. Be-degrade the safety of the product through improper serfore replacing any of these components, read carefully vicing.

PRODUCT SAFETY NOTE: Products marked with a the product safety notice in this service manual. Don't

#### Note:

V-8008CM(N) Comparison Charts.

TYPE	TYPE A	TYPE B
SERIAL NO.	H42410001 ~ H42422000 H44422001A ~ H44479750A H04579751A ~ H**595000A	H45310001~ H**532000

Ref. No.	Description	Part No.
A 1X	FRONT ASSEMBLY (V-8008CM(N) only)	0VM201603
A 1X	FRONT ASSEMBLY (V-8008SA(N) only)	0VM201626
A 2	DOOR, CASSETTE	0VM406031
A3	SPRING, DOOR	0VM403265
A 4	FOOT	0VM403657
A 5	PLATE, FOOT	0VM404901
A6	BADGE	6D52254
A 15	CASE. TOP	0VM100491
A 16	PANEL. BOTTOM(U7-PAL/LC)	0VM201359
A 18 🔨	LABEL, RATING (V-8008CM(N) only)	0VM404957
A 18 🛝	LABEL, RATING (V-8008SA(N) only)	0VM405657
A 10 Z!\	LABEL, HATING (V-00000/A(N) 0111)	
1B 1	DECK ASSEMBLY (V-8008CM(N) only)	N3102XN
1B 1	DECK ASSEMBLY (V-8008SA(N) only)	N3103XN
101	DEGIT ISSEMBLE (1 STOCK III )	
2B 1	VIDEO TRAY(U7 PALLC)	0VM000052B
2B 7	HOLDER, DECK	0VM302182A
2B 13	DECK SUPPORTER	0VM404958
20 13	DEOR SOLT OTTET	
2L 021	SCREW, P-TIGHT 3X10 WASHER HEAD+	GCMP3100
2L 022	SCREW, P-TIGHT 3X10 WASHER HEAD+	GCMP3100
2L 031	SCREW, A-RAMI-TIGHT M3X10 BIND+	DZM23100
2L 061	SCREW, P-TIGHT 4X12 BIND HEAD+	GBKP4120
2L 001	SCREW, A-TIGHT M3X8 BIND HEAD+	DBK13080
2001	PACKING	
S 1	GIFT BOX CARTON (V-8008CM(N) only)	0VM406016
S1	GIFT BOX CARTON (V-8008SA(N) only)	0VM406157
S 1	GIFT BOX CARTON (V-8008CM(N) only)	0VM302301
S 2	STYROFOAM	0VM201336
S 3	UNIT. BAG or	0VM403347
33	UNIT, BAG(CONTINUITY) WARNING	0VZZ00001A
S 4	PAD: STYROFOAM	0VM406113
34	ACCESSORY KIT	1-11-11-11-1
X 1	REMOCON BOX RRS2000-6501CR (V-8008CM(N) Type A only)	UREMT28SR007
X 1	REMOCON BOX RRS2000-6501CR (V-8008SA(N) only)	UREMT36SR030
X 1	REMOCON BOX RRS2000-5503CR (V-8008CM(N) Type B only)	UREMT36SR028
X 2 🔨	OWNER'S MANUAL (V-8008CM(N) only)	0VMN01485
X 2 🗥	OWNER'S MANUAL (V-8008SA(N) only)	0VMN01499
X 3	RF CORD PAL 1.2M or	WPZ0122TM001
^"	BE CORD PAL 1.2M	WPZ0122TM004
X 4	DRY BATTERY UM-3(M) 2PCS PACK or	1790849
1^4	DRY BATTERY UM3/RS6 2PCS PACK	579W099
	DITI DATELLI GROTIOS EL COLLION	3

Ref. No.	Description	Part No.
	HEAD CLEANING BLOCK	
B 88	CLEANING CALKING ASSEMBLY	0VM403982
B 89	CLEANING BEARING	0VM403208
B 90	CLEANING ROLLER	0VM403613
B 91	CLEANING SPRING	0VM403614
B 92	P.S.W7.5X2.1X0.5T	0VM403615
B 93	CUT P.S.W6.1X1.6X0.5T	0VM403616
B 94	IR ARM	0VM301195F
B 95	SPRING IR	0VM403211
B 96	SHAFT CIR	0VM403214D
B 97	PS.W A	0VM402624
L 1261	SCREW, SEMS M3X5 PAN HEAD+	CPM33050

#### **ELECTRICAL PARTS LIST**

Ref. No.

PRODUCT SAFETY NOTE: Products marked with a Parts that not assigned part numbers (-----) are not ♠ have special characteristics important to safety. Be- available. fore replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

Tolerance of Capacitors and Resistors are noted with the following symbols.

C±0.25%	D±0.5%	F±1%
G±2%	J±5%	K±10%
M±20%	N±30%	Z+80/-20%

Description

Part No.

#### **MCV CBA**

Ref. No.	Description	Part No.
	MCV CBA (V-8008CM(N) only)	0VSA06691
	MCV CBA (V-8008SA(N) only)	0VSA06752
	Consists of the following:	
	MAIN CBA (MCV-A)	
	REMOTE SENSOR CBA (MCV-C)	
	REMOTE SENSOR CBA (MCV-D)	

MAIN CBA (MCV-A)

Ref. No.	Description	Part No.
	MAIN CBA (MCV-A)	
	Consists of the following:	
	CAPACITORS	
C 1001 🛧	METALLIZED FILM CAP. 0.047μF/250V K or	CT2E473NC011
	METALLIZED FILM CAP. 0.047μF/250V M or	CT2E473MS001
	METALLIZED FILM CAP. 0.047μF/250V M or	CT2E473UN009
	METALLIZED FILM CAP. 0.047μF/275V K	CT2E473DT001
C 1003 🛕	SAFETY CAP. 2200pH/400V M	122Z011
C 1004	ELECTROLYTIC CAP. 100µF/400V M or	CA2H101NC008
	ELECTROLYTIC CAP. 100µF/400V M or	CA2H101SP025
	ELECTROLYTIC CAP. 100µF/400V M or	CA2H101EA008
	ELECTROLYTIC CAP. 100µF/400V M	CA2H101MS002
C 1005	CERAMIC CAP. B K 0.01µF/500V or	CCD2JKP0B103
	CERAMIC CAP. 0.01µF/500V or	CA2J103TU001
	CERAMIC CAP. B K 0.01µF/500V	CCD2JKD0B103
C 1006	CERAMIC CAP. SLJ 180pH/1KV or	CA3A181MR506
	CERAMIC CAP. SLK 180pH/1KV	CCD3AKPSL181
C 1007	SEMICONDUCTOR CAP. SR K 0.047µF/25V or	CDA1EKS0X473
	SEMICONDUCTOR CAP. SR K 0.047µF/25V	12Y2473S
C 1008	CERAMIC CAP. X K 0.0033μF/16V	3X4C332T
C 1009	CERAMIC CAP. Y M 8200pH/16V	3Y4D822T
C 1010	SEMICONDUCTOR CAP.SR K 0.0082µF/25V or	CDA1EKS0X822
	SEMICONDUCTOR CAP. SR K 0.0082µF/25V	12Y2822S
C 1011	ELECTROLYTIC CAP. 4.7μF/50V M or	CE1JMASDL4R7
	ELECTROLYTIC CAP. 4.7µF/50V M	126F475S
C 1012	ELECTROLYTIC CAP. 470µF/16V M or	CE1CMAUDL471
	ELECTROLYTIC CAP. 470μF/16V M	126C477S
C 1013	ELECTROLYTIC CAP. 22µF/50V M or	CE1JMASDL220
	ELECTROLYTIC CAP. 22µF/50V M	126F226S
C 1014	ELECTROLYTIC CAP. 330μF/16V M or	CE1CMASDL331
0 1011	ELECTROLYTIC CAP. 330µF/16V M	126C337S
C 1015	ELECTROLYTIC CAP. 470µF/16V M or	CE1CMAUDL471
0 1013	ELECTROLYTIC CAP 470µF/16V M	126C477S
C 1016	ELECTROLYTIC CAP 1000µF/10V M or	CE1AMAUDL102
0 1010	ELECTROLYTIC CAP. 1000μF/10V M	126B108S
C 1017	ELECTROLYTIC CAP. 1000μF/10V M  ELECTROLYTIC CAP. 1000μF/10V M or	CE1AMASDL101
0 1017	ELECTROLYTIC CAP 100μF/10V M of	126B107S
C 1018	CERAMIC CAP. F Z 0.01µF/50V or	CCD1JZS0F103
0 1010	CERAMIC CAP. F Z 0.01µF/50V or CERAMIC CAP. F Z 0.01µF/50V	12F3103S
C 1019		
0 1019	SEMICONDUCTOR CAP. SR K 0.047µF/25V or	CUATERSUX4/3

١		SEMICONDUCTOR CAP. SR K 0.047µF/25V	12Y2473S
	1		
ı	C 1021	CERAMIC CAP. B J 150pH/50V	3B41151T
ı	C 1501	ELECTROLY+wC CAP. 0.47μF/50V M H7 or	CE1JMASSLR47
1		ELECTROLYTIC CAP. 0.47µF/50V M H7	526W474S
ı	C 1505	CERAMIC CAP. SLJ 47pH/50V	3S41470T
I	C 3001	CERAMIC CAP. SLJ 39pH/50V	3S41390T
_	C 3002	ELECTROLYTIC CAP. 0.1μF/50V M H7 or	CE1JMASSL0R1
		ELECTROLYTIC CAP. 0.1µF/50V M H7	526W104S
7	C 3003	CERAMIC CAP. B J 150pH/50V	3B41151T
1	C 3004	CERAMIC CAP. SLJ 68pH/50V	3S41680T
١	C 3005	CERAMIC CAP. F Z 0.01 µF/25V or	CDA1EZT0F103
1		CERAMIC CAP. F Z 0.01μF/16V	1220842T
1	C 3006	ELECTROLYTIC CAP. 0.1µF/50V M H7 or	CE1JMASSL0R1
ı		ELECTROLYTIC CAP. 0.1μF/50V M H7	526W104S
ı	C 3007	CERAMIC CAP. F Z 0.022µF/25V or	122Z122T
١		CERAMIC CAP. F Z 0.022µF/25V	1220843T
۱	C 3008	CERAMIC CAP. SL J 39pH/50V (V-8008CM(N) only)	3S41390T
١	C 3009	CERAMIC CAP. SLJ 33pH/50V	3S41330T
ı	C 3011	CERAMIC CAP. SLJ 33pH/50V	3S41330T
١	C 3012	CERAMIC CAP. SL J 27pH/50V	3S41270T
١	C 3013	CERAMIC CAP. SL J 27pH/50V	3S41270T
ı	C 3014	CERAMIC CAP. Y M 0.01 µF/16V or	CDA1CMT0Y103
ı		CERAMIC CAP. Y M 0.01µF/16V	3Y4D103T
I	C 3015	CERAMIC CAP. B J 220pH/50V	3B41221T
١	C 3016	CERAMIC CAP. SLJ 56pH/50V	3S41560T
۱	C 3017	CERAMIC CAP. B J 220pH/50V	3B41221T
١	C 3018	CERAMIC CAP. SL J 47pH/50V (V-8008CM(N) only)	3S41470T
l	C 3018	CERAMIC CAP. SL J 33pH/50V (V-8008SA(N) only)	3S41330T
١	C 3019	CERAMIC CAP. SL J 18pH/50V (V-8008SA(N) only)	3S41180T
l	C 3020	CERAMIC CAP. B J 180pH/50V	3B41181T
١	C 3021	CERAMIC CAP. SL J 33pH/50V (V-8008CM(N) only)	3S41330T
١	C 3021	CERAMIC CAP. SL J 22pH/50V (V-8008SA(N) only)	3S41220T
١	C 3022	CERAMIC CAP. SL J 47pH/50V	3S41470T
١	C 3023	CERAMIC CAP. SL J 82pH/50V (V-8008CM(N) only) or	CCD1JJSSL820
		CERAMIC CAP. SLJ 82pH/50V (V-8008CM(N) only)	1270820S
	C 3023	CERAMIC CAP. SL J 56pH/50V (V-8008SA(N) only) or	CCD1JJSSL560
		CERAMIC CAP. SL J 56pH/50V (V-8008SA(N) only)	1270560S
١	C 3024	CERAMIC CAP. SL J 22pH/50V	3S41220T
١	C 3025	ELECTROLYTIC CAP. 1μF/50V M H7 or	CE1JMASSL010
١		ELECTROLYTIC CAP. 1μF/50V M H7	526W105S
١	C 3026	CERAMIC CAP. B J 390pH/50V	3B41391T
Ĺ	C 3027	CERAMIC CAP. SLJ 18pH/50V or	CCD1JJSSL180

V2400CA 941206 3-3-1 V2400EL 3-2-1 941206

Ref. No.	Description	Part No.	Ref. No.	Description	Part No.
nei. NO.	CERAMIC CAP. SL J 18pH/50V	1270180S	C 3090	ELECTROLYTIC CAP. 470µF/6.3V M or	CE0KMASDL471
C 3028	CERAMIC CAP. B J 100pH/50V	3B41101T	0 0000	ELECTROLYTIC CAP. 470μF/6.3V M	126A477S
C 3028	ELECTROLYTIC CAP. 10µF/16V M H7 or	CE1CMASSL100	C 3091	ELECTROLYTIC CAP. 100μF/16V M or	CE1CMASDL101
C 3029	ELECTROLYTIC CAP. 10µF/16V M H7	526T106S		ELECTROLYTIC CAP. 100μF/16V M	126C107S
C 3030	ELECTROLYTIC CAP. 10µF/16V M H7 or	CE1CMASSL100	C 3101	CERAMIC CAP. F Z 0.01μF/50V	CCD1JZS0F103
C 3030	ELECTROLYTIC CAP. 10μF/16V M H7	526T106S		(V-8008CM(N) only) or	
C 3031	CERAMIC CAP. SL J 15pH/50V or	CCD1JJSSL150	1	CERAMIC CAP. F Z 0.01µF/50V (	12F3103S
C 3031	CERAMIC CAP. SLJ 15pH/50V	1270150S		V-8008CM(N) only)	
C 3032	CERAMIC CAP. 52.0 (Spri)30V	CDA1EZT0F103	C 3102	CERAMIC CAP. F Z 0.01µF/50V	CCD1JZS0F103
C 3032	CERAMIC CAP. F Z 0.01µF/16V	1220842T		(V-8008CM(N) only) or	10521020
C 3033	CERAMIC CAP. F Z 0.022µF/25V or	122Z122T		CERAMIC CAP. F Z 0.01μF/50V   (V-8008CM(N) only)	12F3103S
C 3033	CERAMIC CAP. F Z 0.022µ1/25V	1220843T	C 3103	ELECTROLYTIC CAP. 2.2µF/50V M H7	CE1JMASSL2R2
0.0004	CERAMIC CAP. F Z 0.022µF/25V or	122Z122T	03103	(V-8008CM(N) only) or	OE TOMIN GOLLET E
C 3034	CERAMIC CAP. F Z 0.022µF/25V 01	1220843T		ELECTROLYTIC CAP. 2.2µF/50V M H7	526W225S
C 2025	ELECTROLYTIC CAP. 1µF/50V M H7 or	CE1JMASSL010		(V-8008CM(N) only)	
C 3035	ELECTROLYTIC CAP. 1μF/50V M H7	526W105S	C 3104	ELECTROLYTIC CAP. 100μF/6.3V M	CE0KMASDL101
C 3036	ELECTROLYTIC CAP. 1μF/50V M H7 or	CE1JMASSL010		(V-8008CM(N) only) or	40044070
C 3036	ELECTROLYTIC CAP. 1µF/50V M H7	526W105S		ELECTROLYTIC CAP. 100μF/6.3V M (V-8008CM(N) only)	126A107S
C 3037	CERAMIC CAP. FZ 0.01µF/25V or	CDA1EZT0F103	C 3105	ELECTROLYTIC CAP. 3.3µF/50V M	CE1JMASDL3R3
C 3037	CERAMIC CAP. F Z 0.01µF/25V 01	1220842T	03105	(V-8008CM(N) only) or	OL IONIAODLONO
0.000	ELECTROLYTIC CAP. 10μF/16V M H7 or	CE1CMASSL100		ELECTROLYTIC CAP. 3.3µF/50V M	126F335S
C 3038	ELECTROLYTIC CAP. 10µF/16V M H7 01  ELECTROLYTIC CAP. 10µF/16V M H7	526T106S		(V-8008CM(N) only)	
0.0000	ELECTROLYTIC CAP. 10µF/16V M H7 ELECTROLYTIC CAP. 4.7µF/50V M H7 or	CE1JMASSL4R7	C 3106	ELECTROLYTIC CAP. 3.3µF/50V M	CE1JMASDL3R3
C 3039	ELECTROLYTIC CAP. 4.7µF/50V M H7	526W475S		(V-8008CM(N) only) or	10050050
0.0040	ELECTROLYTIC CAP. 4.7μF/30V M H7  ELECTROLYTIC CAP. 4.7μF/25V M H7 or	CE1EMASSL4R7	1	ELECTROLYTIC CAP. 3.3μF/50V M	126F335S
C 3040	ELECTROLYTIC CAP. 4.7µF/25V M H7	526U475S	C 4001	(V-8008CM(N) only) CERAMIC CAP. B K 1000pH/50V or	CCD1JKS0B102
C 3043	ELECTROLYTIC CAP. 220µF/6.3V M H7 or	CE0KMASSL221	C 4001	CERAMIC CAP. B K 1000pr/050V 01	12B3102S
C 3043	ELECTROLYTIC CAP. 220µF/6.3V M H7	526R227S	C 4002	CERAMIC CAP. X K 0.001µF/30V	3X4C182T
C 3044	CERAMIC CAP. F Z 0.1µF/50V	3F40104T	C 4002	(V-8008SA(N) only) or	3/40/02/
C 3044	CERAMIC CAP. F Z 0.1µF/50V	3F40104T	C 4003	SEMICONDUCTOR CAP. SR K 0.01µF/25V or	CDA1EKS0X103
C 3045	SEMICONDUCTOR CAP. SR K 0.022µF/25V or	CDA1EKS0X223		SEMICONDUCTOR CAP. SR K 0.01μF/25V	12Y2103S
C 3046	SEMICONDUCTOR CAP. SR K 0.022µF/25V	12Y2223S	C 4004	ELECTROLYTIC CAP. 22μF/16V M H7 or	CE1CMASSL220
C 3047	ELECTROLYTIC CAP. 4.7µF/50V M H7 or	CE1JMASSL4R7		ELECTROLYTIC CAP. 22µF/16V M H7	526T226S
0.3047	ELECTROLYTIC CAP. 4.7 µF/50V M H7	526W475S	C 4005	ELECTROLYTIC CAP. 10μF/16V M H7 or	CE1CMASSL100
C 3048	ELECTROLYTIC CAP. 1µF/50V M H7 or	CE1JMASSL010		ELECTROLYTIC CAP. 10μF/16V M H7	526T106S
0.3040	ELECTROLYTIC CAP. 1µF/50V M H7	526W105S	C 4006	CERAMIC CAP. F Z 0.1µF/50V	3F40104T
C 3049	CERAMIC CAP. F Z 0.01μF/25V or	CDA1EZT0F103	C 4007	ELECTROLYTIC CAP. 3.3μF/50V M or	CE1JMASDL3R3
0 3043	CERAMIC CAP. F Z 0.01µF/16V	1220842T		ELECTROLYTIC CAP. 3.3μF/50V M	126F335S
C 3050	CERAMIC CAP. F Z 0.01µF/25V or	CDA1EZT0F103	C 4008	SEMICONDUCTOR CAP. F Z 0.1µF/25V or	CDA1EZS0F104
00000	CERAMIC CAP. F Z 0.01µF/16V	1220842T		SEMICONDUCTOR CAP. F Z 0.1µF/25V	1220520S
C 3051	ELECTROLYTIC CAP. 1µF/50V M H7 or	CE1JMASSL010	C 4009	CERAMIC CAP. X K 0.0068µF/16V	3X4C682T
0 0001	ELECTROLYTIC CAP. 1μF/50V M H7	526W105S	C 4010	ELECTROLYTIC CAP. 10μF/16V M H7 or	CE1CMASSL100
C 3052	CERAMIC CAP. F Z 0.01μF/50V or	CCD1JZS0F103		ELECTROLYTIC CAP. 10μF/16V M H7	526T106S
0 0002	CERAMIC CAP. F Z 0.01µF/50V	12F3103S	C 4011	CERAMIC CAP. F Z 0.1µF/50V	3F40104T
C 3053	CERAMIC CAP. F Z 0.01µF/50V or	CCD1JZS0F103	C 4012	SEMICONDUCTOR CAP. F Z 0.1 µF/25V or	CDA1EZS0F104
0 0000	CERAMIC CAP. F Z 0.01µF/50V	12F3103S		SEMICONDUCTOR CAP. F Z 0.1 µF/25V	1220520S
C 3054	SEMICONDUCTOR CAP. F Z 0.1μF/25V or	CDA1EZS0F104	C 4013	ELECTROLYTIC CAP. 1μF/50V M H7 or	CE1JMASSL010
	SEMICONDUCTOR CAP. F Z 0.1μF/25V	1220520S		ELECTROLYTIC CAP. 1μF/50V M H7	526W105S
C 3055	CERAMIC CAP. F Z 0.022μF/25V or	122Z122T	C 4014	ELECTROLYTIC CAP. 10μF/16V M H7 or	CE1CMASSL100
0 0000	CERAMIC CAP. F Z 0.022μF/25V	1220843T		ELECTROLYTIC CAP. 10μF/16V M H7	526T106S
C 3056	ELECTROLYTIC CAP. 22µF/6.3V M H7 or	CE0KMASSL220	C 4015	ELECTROLYTIC CAP. 47μF/16V M H7 or	CE1CMASSL470
0 0000	ELECTROLYTIC CAP. 22µF/6.3V M H7	526R226S		ELECTROLYTIC CAP. 47µF/16V M H7	526T476S
C 3057	ELECTROLYTIC CAP. 1µF/50V M H7 or	CE1JMASSL010	C 4016	CERAMIC CAP. Y M 0.01 µF/16V or	CDA1CMT0Y103
0 000.	ELECTROLYTIC CAP. 1μF/50V M H7	526W105S		CERAMIC CAP. Y M 0.01µF/16V	3Y4D103T
C 3058	CERAMIC CAP. SLJ 15pH/50V or	CCD1JJSSL150	C 4017	CERAMIC CAP. Y M 0.01 µF/16V or	CDA1CMT0Y103
0 0000	CERAMIC CAP. SLJ 15pH/50V	1270150S		CERAMIC CAP. Y M 0.01µF/16V	3Y4D103T
C 3059	CERAMIC CAP. F Z 0.01µF/25V or	CDA1EZT0F103	C 4019	*MYLAR CAP. 0.047µF/100V J or	CMA2AJS00473
0 0000	CERAMIC CAP. F Z 0.01μF/16V	1220842T		MYLAR CAP. 0.047μF/100V J	1255473S
C 3062	ELECTROLYTIC CAP. 0.1µF/50V M or	CE1JMASDL0R1	C 4020	CERAMIC CAP. Y M 0.01 µF/16V or	CDA1CMT0Y103
0 0002	ELECTROLYTIC CAP. 0.1µF/50V M	126F104S		CERAMIC CAP. Y M 0.01µF/16V	3Y4D103T
C 3063	CERAMIC CAP. B J 220pH/50V	3B41221T	C 4021	CERAMIC CAP. X K 0.0068μF/16V	3X4C682T
C 3063	CERAMIC CAP.	3F40473T	C 4022	CERAMIC CAP. X K 0.0027µF/16V	3X4C272T
C 3064 C 3069	CERAMIC CAP. 1 2 0.047 μ1/30V	3B41102T	C 4023	CERAMIC CAP. B J 220pH/50V	3B41221T
C 3009	CERAMIC CAP. F Z 0.022µF/25V or	122Z122T	C 6002	ELECTROLYTIC CAP. 2.2μF/50V M H7 or	CE1JMASSL2R2
0 30/0	CERAMIC CAP. F Z 0.022µF/25V	1220843T		ELECTROLYTIC CAP. 2.2μF/50V M H7	526W225S
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<sup>\*</sup> Mylar is a registered trademark of E. I. DuPont de Nemours and Company.

Ref. No.	Description	Part No.	Ref. No.	Description	Part No.
C 6003	CERAMIC CAP. F Z 0.047μF/50V	3F40473T	C 7013	CERAMIC CAP. X K 0.0022µF/16V	3X4C222T
C 6004	CERAMIC CAP. SL J 10pH/50V	3S41100T	C 7014	CERAMIC CAP. X K 0.0022µF/16V	3X4C222T
C 6005	CERAMIC CAP. SL J 15pH/50V	3S41150T	C 7015	CERAMIC CAP. X K 0.0068µF/16V	3X4C682T
C 6006	CERAMIC CAP. F Z 0.1µF/50V	3F40104T	C 7016	ELECTROLYTIC CAP. 470µF/6.3V M or	CE0KMASDL471
C 6007	ELECTROLYTIC CAP. 10µF/16V M	CE1CMASDL100	107010	ELECTROLYTIC CAP. 470µF/6.3V M	126A477S
C 6008	ELECTROLYTIC CAP. 33µF/6.3V M	CE0KMASDL330	C 7017	CERAMIC CAP. F Z 0.1μF/50V	
C 6009	CERAMIC CAP. F Z 0.022µF/50V or	CCD1JZS0F223	C 7018	CERAMIC CAP. X K 0.0022µF/16V	3F40104T
	CERAMIC CAP. F Z 0.022µF/50V	12F3223S	C 7010	CERAMIC CAP. B J 0.001µF/50V	3X4C222T
C 6010	CERAMIC CAP. SL J 27pH/50V or	CCD1JJSSL270	C 7020	CERAMIC CAP. F Z 0.1μF/50V	3B41102T
	CERAMIC CAP. SLJ 27pH/50V	1270270S	C 7021	CERAMIC CAP. Y Z 0.1µF/30V	3F40104T
C 6011	CERAMIC CAP. SL J 27pH/50V or	CCD1JJSSL270	C 7024	ELECTROLYTIC CAP. 10μF/16V M	3X4C222T
	CERAMIC CAP. SLJ 27pH/50V	1270270S	C 7024	1	CE1CMASDL100
C 6012	ELECTROLYTIC CAP. 330µF/6.3V M H7 or	CE0KMASSL331	C 7025	ELECTROLYTIC CAP. 4.7 µF/50V M or	CE1JMASDL4R7
0 00.2	ELECTROLYTIC CAP. 330µF/6.3V M H7	526R337S	C 7501	ELECTROLYTIC CAP. 4.7µF/50V M	126F475S
C 6013	CERAMIC CAP. F Z 0.022µF/50V or	CCD1JZS0F223	0 7501	CERAMIC CAP. F Z 0.01 µF/50V or	CCD1JZS0F103
0 0010	CERAMIC CAP. F Z 0.022µF/50V	12F3223S	C 7502	CERAMIC CAP. FZ 0.01µF/50V	12F3103S
C 6014	SEMICONDUCTOR CAP. SR K 0.1µF/25V or	CDA1EKS0X104		ELECTROLYTIC CAP. 10μF/16V M	CE1CMASDL100
0 0014	SEMICONDUCTOR CAP. SR K 0.1µF/25V	12Y2104S	C 7503	CERAMIC CAP. X K 0.0033μF/16V	3X4C332T
C 6015	SEMICONDUCTOR CAP. SR K 0.1µF/25V or	CDA1EKS0X104	C 7504	CERAMIC CAP. B J 470pH/50V	3B41471T
2 2010	SEMICONDUCTOR CAP. SR K 0.1µF/25V 0F	12Y2104S	C 7505	CERAMIC CAP. B J 150pH/50V	3B41151T
C 6016	ELECTROLYTIC CAP. 220µF/6.3V M or	CE0KMASDL221	CN3001	CONNECTORS STRAIGHT DIALCONNECTOR 150	1770005
3 30.0	ELECTROLYTIC CAP. 220µF/6.3V M	126A227S	CN3001	STRAIGHT PIN CONNECTOR, 15P STRAIGHT PIN CONNECTOR, 20P	1770635
C 6018	CERAMIC CAP. B K 1000pH/50V or	CCD1JKS0B102	CN6001	HINGED PIN CONNECTOR 4P	1770640
0 0010	CERAMIC CAP. B K 0.001 µF/50V	12B3102S	CN6002	STRAIGHT PIN HEADER, 2P	J3TRJ04TG003
C 6019	CERAMIC CAP. B J 0.001 μF/50V	3B41102T	C140003	DIODES	1740764
C 6020	CERAMIC CAP. F Z 0.01 µF/50V or	CCD1JZS0F103	D 1001	RECTIFIER DIODE 1N4005 or	NDOZOGANAGOS
0 0020	CERAMIC CAP. F Z 0.01µF/50V	12F3103S	D 1001	RECTIFIER DIODE 1A5 or	ND8Z001N4005
C 6021	ELECTROLYTIC CAP. 22µF/16V M	CE1CMASDL220		RECTIFIER DIODE 1N4005E	NDQZ000001A5
C 6022	CERAMIC CAP. F Z 0.01μF/50V or	CCD1JZS0F103	D 1002	RECTIFIER DIODE 1N4005E	NDQZ01N4005E
0 0022	CERAMIC CAP. F Z 0.01µF/50V	12F3103S	1002	RECTIFIER DIODE 1A5 or	ND8Z001N4005
C 6023	ELECTROLYTIC CAP. 47μF/6.3V M H7 or	CE0KMASSL470		RECTIFIER DIODE 1N4005E	NDQZ000001A5 NDQZ01N4005E
0 0020	ELECTROLYTIC CAP. 47µF/6.3V M H7	526R476S	D 1003	RECTIFIER DIODE 1N4005 or	
C 6024	CERAMIC CAP. SL J 82pH/50V or	CCD1JJSSL820	15 1000	RECTIFIER DIODE 1A5 or	ND8Z001N4005 NDQZ000001A5
	CERAMIC CAP. SL J 82pH/50V	1270820S		RECTIFIER DIODE 1N4005E	NDQZ000001A5 NDQZ01N4005E
C 6025	CERAMIC CAP. B J 0.001µF/50V	3B41102T	D 1004	RECTIFIER DIODE 1N4005 or	ND8Z001N4005
C 6027	CERAMIC CAP. F Z 0.01µF/25V or	CDA1EZT0F103	3 1001	RECTIFIER DIODE 1A5 or	NDQZ000001A5
	CERAMIC CAP. F Z 0.01µF/16V	1220842T		RECTIFIER DIODE 1N4005E	NDQZ01N4005E
C 6029	ELECTROLYTIC CAP. 10µF/16V M LL H7 or	CA1C100SP018	D 1005	RECTIFIER DIODE EG01C	QDPZ000EG01C
	ELECTROLYTIC CAP. 10µF/16V M LL H7	CE1CMASHL100	D 1006	SWITCHING DIODE 1N4148M or	NDTZ01N4148M
C 6030	ELECTROLYTIC CAP. 2.2μF/50V M H7 or	CE1JMASSL2R2		SWITCHING DIODE 1N4148M or	QDTZ01N4148M
	ELECTROLYTIC CAP. 2.2μF/50V M H7	526W225S		SWITCHING DIODE GMB01-BT	GMB01BT
C 6031	ELECTROLYTIC CAP. 10µF/16V M H7 or	CE1CMASSL100	D 1007	SWITCHING DIODE 1N4148M or	NDTZ01N4148M
	ELECTROLYTIC CAP. 10µF/16V M H7	526T106S		SWITCHING DIODE 1N4148M or	QDTZ01N4148M
C 6032	CERAMIC CAP. B K 2200pH/50V or	CCD1JKS0B222		SWITCHING DIODE GMB01-BT	GMB01BT
	CERAMIC CAP. B K 0.0022µF/50V	12B3222S	D 1009	RECTIFIER DIODE EG01C	QDPZ000EG01C
C 6033	CERAMIC CAP. B J 0.001µF/50V	3B41102T	D 1010	RECTIFIER DIODE RU3YX LF-C4 or	QD7Z000RU3YX
C 6034	CERAMIC CAP. B J 0.001µF/50V	3B41102T		FAST RECOVERY DIODE EGP20B or	NDQB000EGP20
C 6035	ELECTROLYTIC CAP. 10µF/16V M	CE1CMASDL100		FAST RECOVERY DIODE EGP20D	NDQD000EGP20
C 6036	CERAMIC CAP. FZ 0.047µF/50V	3F40473T		RECTIFIER DIODE EG01C	QDPZ000EG01C
C 6037	CERAMIC CAP. B J 180pH/50V	3B41181T		SCHOTTKY BARRIER DIODE AK03 LF-01 or	QDQZ0000AK03
C 7001	CERAMIC CAP. FZ 0.047µF/50V	3F40473T	1	SCHOTTKY BARRIER DIODE SB040 or	NDQZ000SB040
C 7002	CERAMIC CAP. F Z 0.047µF/50V	3F40473T	1	SCHOTTKY BARRIER DIODE 11EQS04	QD4Z011EQS04
C 7003	CERAMIC CAP. X K 0.0022µF/16V	3X4C222T	D 1013	SWITCHING DIODE BAV18 or	NDQZ000BAV18
C 7005	CERAMIC CAP. B J 0.001µF/50V	3B41102T		SWITCHING DIODE MA178	QDPZ000MA178
C 7006	ELECTROLYTIC CAP. 10μF/16V M	CE1CMASDL100		SWITCHING DIODE 1N4148M or	NDTZ01N4148M
C 7007	ELECTROLYTIC CAP. 100µF/16V M or	CE1CMASDL101		SWITCHING DIODE 1N4148M or	QDTZ01N4148M
	ELECTROLYTIC CAP. 100μF/16V M	126C107S		SWITCHING DIODE GMB01-BT	GMB01BT
C 7008	CERAMIC CAP. SL J 56pH/50V	3S41560T		ZENER DIODE UZ-7.5BSA	QDTA0UZ7R5BS
C 7009	ELECTROLYTIC CAP. 47µF/35V M or	CE1GMASDL470		ZENER DIODE UZ-6.8BSA	QDTA0UZ6R8BS
	ELECTROLYTIC CAP. 47µF/35V M	126E476S		ZENER DIODE UZ-6.2BSB	QDTB0UZ6R2BS
C 7010	MYLAR CAP. 0.1μF/50V J or	CMA1JJS00104		SWITCHING DIODE 1N4148M or	NDTZ01N4148M
	MYLAR CAP. 0.1μF/50V J	2254104S		SWITCHING DIODE 1N4148M or	QDTZ01N4148M
C 7011	MYLAR CAP. 0.1μF/50V J or	CMA1JJS00104		SWITCHING DIODE GMB01-BT	GMB01BT
	MYLAR CAP. 0.1μF/50V J	2254104S	1	SWITCHING DIODE 1N4148M or	NDTZ01N4148M
C 7012	MYLAR CAP. 0.1μF/50V J or	CMA1JJS00104	1	SWITCHING DIODE 1N4148M or	QDTZ01N4148M
	MYLAR CAP. 0.1μF/50V J	2254104S		SWITCHING DIODE GMB01-BT	GMB01BT

941206 3-3-2 V2400EL 941206 3-3-3 V2400EL V2400EL

Ref. No.	Description	Part No.
D 1505	ZENER DIODE UZ-9.1BSC	QDTC0UZ9R1BS
D 1506	PCB JUMPER D0.6-P5.0	JW5.0T
D 1508	RECTIFIER DIODE 1N4005 or	ND8Z001N4005
	RECTIFIER DIODE 1A5 or	NDQZ000001A5
	RECTIFIER DIODE 1N4005E	NDQZ01N4005E
D 1509	PCB JUMPER D0.6-P5.0	JW5.0T
D 1510	PCB JUMPER D0.6-P5.0	JW5.0T
D 3002	SWITCHING DIODE 1N4148M or	NDTZ01N4148M
	SWITCHING DIODE 1N4148M or	QDTZ01N4148M
	SWITCHING DIODE GMB01-BT	GMB01BT
D 3003	SWITCHING DIODE 1N4148M or	NDTZ01N4148M
	SWITCHING DIODE 1N4148M or	QDTZ01N4148M
	SWITCHING DIODE GMB01-BT	GMB01BT
D 3006	SWITCHING DIODE GMB01-BT ( V-8008SA(N) only) or	GMB01BT
	SWITCHING DIODE 1N4148M (V-8008SA(N)	NDTZ01N4148M
	only) or	1401201144140141
	SWITCHING DIODE 1N4148M (V-8008SA(N)	QDTZ01N4148M
	only)	
D 3007	SWITCHING DIODE 1N4148M or	NDTZ01N4148M
	SWITCHING DIODE 1N4148M or	QDTZ01N4148M
	SWITCHING DIODE GMB01-BT	GMB01BT
D 3101	SWITCHING DIODE 1N4148M	NDTZ01N4148M
	(V-8008CM(N) only) or	ODT701N4149N4
	SWITCHING DIODE 1N4148M (V-8008CM(N) only) or	QDTZ01N4148M
	SWITCHING DIODE GMB01-BT	GMB01BT
	(V-8008CM(N) only)	Ginesie
D 3102	SWITCHING DIODE 1N4148M	NDTZ01N4148M
	(V-8008CM(N) only) or	0.00
	SWITCHING DIODE 1N4148M (V-8008CM(N) only) or	QDTZ01N4148M
	SWITCHING DIODE GMB01-BT	GMB01BT
	(V-8008CM(N) only)	CIVIDOTE
D 6001	SWITCHING DIODE 1N4148M or	NDTZ01N4148M
	SWITCHING DIODE 1N4148M or	QDTZ01N4148M
	SWITCHING DIODE GMB01-BT	GMB01BT
D 6004	SWITCHING DIODE 1N4148M or	NDTZ01N4148M
	SWITCHING DIODE 1N4148M or	QDTZ01N4148M
	SWITCHING DIODE GMB01-BT	GMB01BT
D 6005	SWITCHING DIODE 1N4148M or	NDTZ01N4148M
ŀ	SWITCHING DIODE 1N4148M or	QDTZ01N4148M
	SWITCHING DIODE GMB01-BT	GMB01BT
D 6006	SWITCHING DIODE 1N4148M or	NDTZ01N4148M
	SWITCHING DIODE 1N4148M or	QDTZ01N4148M
	SWITCHING DIODE GMB01-BT	GMB01BT
D 6007	SWITCHING DIODE 1N4148M or	NDTZ01N4148M
	SWITCHING DIODE 1N4148M or	QDTZ01N4148M
	SWITCHING DIODE GMB01-BT	GMB01BT
D 6008	LED SID1K10CXM or	QP4ZD1K10CXM
	LED LN66A.FN or	QP7Z000LN66A
	LED IR940 IR4 or	NP43000IR940
	LED IR940 IR5	NP44000IR940 NDTZ01N4148M
D 6011	SWITCHING DIODE 1N4148M or	
1	SWITCHING DIODE 1N4148M or	QDTZ01N4148M GMB01BT
D 7004	SWITCHING DIODE GMB01-BT	QDTB0UZ6R2BS
D 7001	ZENER DIODE UZ-6.2BSB	QDTB0UZ6R2BS
D 7002	ZENER DIODE UZ-6.2BSB ZENER DIODE UZ-6.2BSB	QDTB0UZ6R2BS
D 7003	ZENER DIODE UZ-6.2BSB	QDTZ0UZ5R1BS
D 7501	ZENER DIODE UZ-5.1BS	QDTZ0UZ5R1BS
D 7502	ZENER DIODE UZ-5.1BS	QDTZ0UZ5R1BS
D 7503	ZENER DIODE UZ-5.1BS	QDTZ0UZ5R1BS
D 7504	ICS	GUIZUUZUIIDO
IC1001 🛧		QPEZ00PC120F
101001 /!\		
IC1002	1C: KA431/ Or	NOCLAUZ SIMUUT
IC1002	IC KA431Z or IC KIA431 or	NSZLAOZSM001 NSZLAOZJY001

IC L5431	Y006 SY011 Y007 SN027 SN027 SN027 SN027 SN027 SN027 SN002 Y019 SM001 Y002 Y016
IC3002   IC LC89972M   QSMLA0SS   IC3101   IC LA7311 (V-8008CM(N) only)   14LQ528   IC4001   IC:AUDIO LA7286   QSZLA0SS   IC6001   MICROCONTROLLER 8BIT   QSMQA0RS   SY/CXP88224-101Q or   MICROCONTROLLER 8BIT   SY/CXP88224-103Q or   MICROCONTROLLER 8BIT   QSMQCORS   SY/CXP88224-104Q   IC6002   IC, COMPARATOR KA339 or   IC, COMPARATOR KIA339P   NSBLA0SJ   IC, COMPARATOR KIA339P   NSBLA0SJ   IC6003   IC, OP-AMP. KA324 or   NSBLA0SJ   IC6004   IC TA7291S   14LW342   IC6005   IC, RESET 4.2V KIA7042P(TO-92) or   NSBLA0TJ   IC:RESET PST-529D-2   14DM763Z   IC6008   IC:MEMORY 24LC01B/P or   NSMMA0SS   IC X24C01AP   NSMMA0SS   IC X24C01AP   NSMMA0SS   IC X24C01AP   NSMMA0SS   IC7001   ZENER DIODE UZT33MTA   QCTZ00UZ	9Y011 Y007 SN027 SN027 SN027 SN027 M002 Y019 M001 Y002 Y016 MH002
IC3101   IC LA7311 (V-8008CM(N) only)   14LQ528   IC4001   IC:AUDIO LA7286   QSZLAOSS   IC6001   MICROCONTROLLER 8BIT   QSMQAORS   SY/CXP88224-101Q or   MICROCONTROLLER 8BIT   QSMQAORS   SY/CXP88224-103Q or   MICROCONTROLLER 8BIT   QSMQCORS   SY/CXP88224-104Q   IC6002   IC, COMPARATOR KA339 or   IC, COMPARATOR KIA339P   NSBLAOSJ   IC, COMPARATOR KIA339P   NSBLAOSJ   IC, OP-AMP. KIA324 or   NSBLAOSJ   IC:OP-AMP. KIA324P DIP-14   NSBLAOSJ   IC:OP-AMP. KIA324P DIP-14   IC6004   IC TA7291S   14LW342   IC6005   IC, RESET 4.2V KIA7042P(TO-92) or   NSBLAOTJ   IC:RESET PST-529D-2   14DM763Z   IC6008   IC:MEMORY 24LC01B/P or   NSMMAOSI   IC ST24C01B1 or   NSMMAOSI   IC X24C01AP   NSMMAOSI   IC7001   ZENER DIODE UZT33MTA   QCTZ00UZ	Y007 SN027 SN027 SN027 SN027 M002 Y019 M001 Y002 Y016 MH002
IC4001   IC:AUDIO LA7286   QSZLAOSS   IC6001   MICROCONTROLLER 8BIT   QSMQAORS   SY/CXP88224-101Q or   MICROCONTROLLER 8BIT   QSMQAORS   SY/CXP88224-103Q or   MICROCONTROLLER 8BIT   QSMQCORS   SY/CXP88224-104Q   IC6002   IC, COMPARATOR KA339 or   IC, COMPARATOR KIA339P   IC6003   IC, OP-AMP. KA324 or   IC:OP-AMP. KIA324P DIP-14   IC6004   IC TA7291S   IC6004   IC TA7291S   IC, RESET 4.2V KIA7042P(TO-92) or   IC;RESET PST-529D-2   IC;RESET PST-529D-2   IC;MEMORY 24LC01B/P or   IC ST24C01B1 or   IC ST24C01B1 or   IC ST24C01AP   IC7001   ZENER DIODE UZT33MTA   QCTZ00UZ	SN027 SN027 SN027 SN027 M002 Y019 M001 Y002 Y016 MH002
IC4001   IC:AUDIO LA7286   QSZLA0SS   IC6001   MICROCONTROLLER 8BIT   QSMQA0RS   SY/CXP88224-101Q or   MICROCONTROLLER 8BIT   QSMQBORS   SY/CXP88224-103Q or   MICROCONTROLLER 8BIT   QSMQCORS   SY/CXP88224-104Q   GSZLA0SS   IC, COMPARATOR KA339 or   IC, COMPARATOR KA339 P   IC6003   IC, OP-AMP. KA324 or   IC:OP-AMP. KIA324P DIP-14   IC6004   IC TA7291S   IC6004   IC TA7291S   IC, RESET 4.2V KIA7042P(TO-92) or   IC:RESET PST-529D-2   IC:RESET PST-529D-2   IC:MEMORY 24LC01B/P or   IC ST24C01B1 or   IC ST24C01B1 or   IC ST24C01AP   IC7001   ZENER DIODE UZT33MTA   QCTZ00UZ	SN027 SN027 SN027 SN027 M002 Y019 M001 Y002 Y016 MH002
IC6001   MICROCONTROLLER 8BIT   SY/CXP88224-101Q or   MICROCONTROLLER 8BIT   SY/CXP88224-103Q or   MICROCONTROLLER 8BIT   SY/CXP88224-103Q or   MICROCONTROLLER 8BIT   SY/CXP88224-104Q   SY/CXP88224-104Q   IC6002   IC, COMPARATOR KA339 or   IC, COMPARATOR KIA339P   IC6003   IC, OP-AMP. KA324 or   IC50P-AMP. KIA324P DIP-14   INSBLAOSJ   IC6004   IC TA7291S   14LW342   IC6005   IC, RESET 4.2V KIA7042P(TO-92) or   IC5RESET PST-529D-2   14DM763Z   IC6008   IC5MEMORY 24LC01B/P or   IC ST24C01B1 or   IC ST24C01B1 or   IC X24C01AP   IC7001   ZENER DIODE UZT33MTA   QCTZ00UZ	SN027 SN027 SN027 SN027 M002 Y019 M001 Y002 Y016 MH002
SY/CXP88224-101Q or   MICROCONTROLLER 8BIT   SY/CXP88224-103Q or   MICROCONTROLLER 8BIT   QSMQB0RS   SY/CXP88224-104Q   SY/CXP88224-104Q   SY/CXP88224-104Q   SY/CXP88224-104Q   SY/CXP88224-104Q   SY/CXP88224-104Q   SY/CXP88224-104Q   SSLAOSS   IC, COMPARATOR KIA339 or   SSLAOSS   IC, COMPARATOR KIA339P   NSBLAOSS   IC, OP-AMP. KIA324 or   NSBLAOSS   IC:OP-AMP. KIA324P DIP-14   NSBLAOSS   IC:OP-AMP. KIA324P DIP-14   NSBLAOSS   IC:OP-AMP. KIA324P DIP-14   NSBLAOSS   IC:OP-AMP. KIA7042P(TO-92) or   NSBLAOTJ   IC:RESET PST-529D-2   14DM763Z   IC:RESET PST-529D-2   14DM763Z   IC:MEMORY 24LC01B/P or   NSMMAOSI   IC:ST24C01B1 or   NSMMAOSI   IC:X24C01AP   NSMAOSI   IC:X24C01AP   IC:X24C01AP   NSMAOSI   IC:X24C01AP   IC:X24C01A	SN027 M002 Y019 M001 Y002 Y016 MH002
SY/CXP88224-103Q or   MICROCONTROLLER 8BIT   QSMQCORS   SY/CXP88224-104Q   IC6002   IC, COMPARATOR KA339 or   NSBLAOSJ   IC, COMPARATOR KIA339P   NSBLAOSJ   IC, OP-AMP. KA324 or   NSBLAOSJ   IC:OP-AMP. KIA324P DIP-14   NSBLAOSJ   IC:OP-AMP. KIA324P DIP-14   NSBLAOSJ   IC: TA7291S   14LW342   IC6005   IC, RESET 4.2V KIA7042P(TO-92) or   NSBLAOTJ   IC:RESET PST-529D-2   14DM763Z   IC:MEMORY 24LC01B/P or   NSMMA0SI   IC ST24C01B1 or   NSMMA0SI   IC X24C01AP   NSMMA0SI   IC7001   ZENER DIODE UZT33MTA   QCTZ00UZ	SN027 M002 Y019 M001 Y002 Y016 MH002
SY/CXP88224-104Q   IC6002   IC, COMPARATOR KA339 or   NSBLA0SS   IC, COMPARATOR KIA339P   NSBLA0SJ   IC6003   IC, OP-AMP. KA324 or   NSBLA0SJ   IC6004   IC TA7291S   14LW342   IC6005   IC, RESET 4.2V KIA7042P(TO-92) or   NSBLA0TJ   IC:RESET PST-529D-2   14DM763Z   IC6008   IC:MEMORY 24LC01B/P or   NSMMA0SI   IC ST24C01B1 or   NSMMA0SJ   IC X24C01AP   NSMMA0SJ   IC7001   ZENER DIODE UZT33MTA   QCTZ00UZ	M002 Y019 M001 Y002 Y016 MH002
IC, COMPARATOR KIA339P   NSBLAOSJ   IC, OP-AMP. KA324 or   NSBLAOSJ   IC:OP-AMP. KIA324P DIP-14   NSBLAOSJ   IC6004   IC TA7291S   14LW342   IC6005   IC, RESET 4.2V KIA7042P(TO-92) or   NSBLAOTJ   IC:RESET PST-529D-2   14DM763Z   IC6008   IC:MEMORY 24LC01B/P or   NSMMAOSI   IC ST24C01B1 or   NSMMAOZI   IC X24C01AP   NSMMAOSI   IC7001   ZENER DIODE UZT33MTA   QCTZ00UZ	Y019 M001 Y002 Y016 MH002
IC6003   IC, OP-AMP. KA324 or   NSBLA0SS   IC:OP-AMP. KIA324P DIP-14   NSBLA0SJ   IC6004   IC TA7291S   14LW342   IC6005   IC, RESET 4.2V KIA7042P(TO-92) or   IC:RESET PST-529D-2   14DM763Z   IC6008   IC:MEMORY 24LC01B/P or   NSMMA0SI   IC ST24C01B1 or   NSMMA0ZI   IC X24C01AP   NSMMA0SI   IC7001   ZENER DIODE UZT33MTA   QCTZ00UZ	M001 Y002 Y016 MH002
IC:OP-AMP. KIA324P DIP-14   NSBLA0SJ*     IC6004	Y002 Y016 MH002
IC6004	Y016 MH002
IC6005   IC, RESET 4.2V KIA7042P(TO-92) or   NSBLA0TJ'     IC:RESET PST-529D-2   14DM763Z     IC6008   IC:MEMORY 24LC01B/P or   NSMMA0SI     IC ST24C01B1 or   NSMMA0SI     IC X24C01AP   NSMMA0SI     IC7001   ZENER DIODE UZT33MTA   QCTZ00UZ	MH002
IC:RESET PST-529D-2	MH002
IC:RESET PST-529D-2	MH002
IC6008         IC:MEMORY 24LC01B/P or IC ST24C01B1 or IC X24C01AP         NSMMA0SI NSMMAOSI NSMMA	
IC ST24C01B1 or	
IC X24C01AP NSMMA0S. IC7001 ZENER DIODE UZT33MTA QCTZ00UZ	55002 I
IC7001 ZENER DIODE UZT33MTA QCTZ00UZ	
TOTOO! ZEITEN BIODE GETGGMINT	
IC7501 IC NJU4052BD or 14D0438	, i JUNI
10 100 100200 01	15004
IC UPD4052BC or QSMLA0SN	
IC TC4052BP or QSMLA0ST	
IC HEF4052BP NSMLA0SF	PH001
	O002
LLBG00ZK LINE FILTER 68MH LF-4D-683 or LLBG00ZK LLBG00ZK	
L 1004 LEAD INDUCTOR 10µH-K LLARKLUT	
L 1005 BEAD CORE HF70BB3.5X10X1.3 XL03010TE	
L 1006 BEAD CORE HF70BB3.5X10X1.3 XL03010TE	
L 1007 BEAD CORE HF70BB3.5X10X1.3 XL03010TE	
L 1008 BEAD CORE HF70BB3.5X10X1.3 XL03010TB	
L 3001 INDUCTOR 180µH-K-26T or LLAXKDTK	
INDUCTOR 180μH-K-26T or LLAXKATT	
INDUCTOR 180μH-K LLAXKCPF	
L 3002 INDUCTOR 82μH-K-26T or LLAXKDTK	
INDUCTOR 82μH-K-26T or LLAXKATT	
INDUCTOR 82μH-K LLAXKCPF	
L 3003 INDUCTOR 330µH-K-26T or LLAXKDTH	(A331
INDUCTOR 330µH-K LLAXKCPF	FG331
L 3004 INDUCTOR 56µH-K-26T or LLAXKDTH	(A560
INDUCTOR 56μH-K-26T or LLAXKATT	U560
INDUCTOR 56µH-K LLAXKCPF	FG560
L 3005 INDUCTOR 27µH-K-26T or LLAXKDTH	<b>KA27</b> 0
INDUCTOR 27µH-K-26T or LLAXKATT	U270
INDUCTOR 27µH-K LLAXKCPF	
L 3006 INDUCTOR 10µH-K-26T or LLAXKDTF	
INDUCTOR 10µH-K-26T or LLAXKATT	
INDUCTOR 10µH-K LLAXKCPI	
L 3007 INDUCTOR 330µH-K-26T or LLAXKDT	
2000,	
L 3008 INDUCTOR 27 H K-26T or LLAXKDT	
INDUCTOR 27µH-K-26T or LLAXKATT	
INDUCTOR 27μH-K LLAXKCPI	
L 3009 INDUCTOR 68µH-K-26T or LLAXKDT	
INDUCTOR 68µH-K-26T or LLAXKATT	
INDUCTOR 68μH-K LLAXKCP	FG680
L 3010 INDUCTOR 68µH-K-26T or LLAXKDTI	KA680
INDUCTOR 68µH-K-26T or LLAXKATT	TU680
INDUCTOR 68µH-K LLAXKCP	FG680
L 3012 INDUCTOR 47µH-K-5FT or LLARKDS	KA470
INDUCTOR 47µH-K-5FT or LLARKBS	TU470
INDUCTOR 47µH-K-5FT LLARKBS	
L 3013 INDUCTOR 18µH-K-26T or LLAXKDT	

Ref. No.	Description	Part No.
	INDUCTOR 18µH-K-26T or	LLAXKATTU180
	INDUCTOR 18µH-K	LLAXKCPFG180
L 3014	LEAD INDUCTOR 22µH-K	LLARKLUTU220
L 3090	PCB JUMPER D0.6-P5.0	JW5.0T
L 3091	INDUCTOR 10µH-K-26T or	LLAXKDTKA100
	INDUCTOR 10µH-K-26T or	LLAXKATTU100
	INDUCTOR 10µH-K	LLAXKCPFG100
L 6002		
L 0002	INDUCTOR 100µH-K-5FT or	LLARKDSKA101
	INDUCTOR 100μH-K-5FT or	LLARKCSTU101
	INDUCTOR 100μH-K-5FT	LLARKBSFS101
L 7001	INDUCTOR 100μH-K-5FT or	LLARKDSKA101
	INDUCTOR 100µH-K-5FT or	LLARKCSTU101
	INDUCTOR 100µH-K-5FT	LLARKBSFS101
L 7002	INDUCTOR 100µH-K-5FT or	LLARKDSKA101
	INDUCTOR 100µH-K-5FT or	LLARKCSTU101
	INDUCTOR 100µH-K-5FT	LLARKBSFS101
	TRANSISTORS	LLANKDOFOTUT
Q 1001 🛧	TRANSISTOR 2SC4204 or	000700004004
u 1001 <u>⟨₹</u> \		QQSZ02SC4204
0.1000 ^	TRANSISTOR 2SC3576	QQSZ02SC3576
Q 1002 🛧		QQPZ02SC4517
	TRANSISTOR 2SC3866	QQPZ02SC3866
Q 1003	TRANSISTOR 2SC3331(T)	QSC3331TNPAA
Q 1501	TRANSISTOR KTC3199(GR) or	NQS10KTC3199
	TRANSISTOR KSC2785(Y) or	NQSY0KSC2785
	TRANSISTOR KSC2785(Y) or TRANSISTOR 2SC536SP(E) or TRANSISTOR 2SC536SP(E)	C536SEZ
	TRANSISTOR 2SC536SP(F)	C536SFZ
Q 1502	TRANSISTOR 2SD1581(K) or	QQPK02SD1581
	TRANSISTOR 2SD1581(L) or	QQPL02SD1581
	TRANSISTOR 2SD1581(M) or	QQPM02SD1581
	TRANSISTOR 2SC3246(J) or	
	1	QQQJ02SC3246
1500	TRANSISTOR 2SC3246(K)	QQQK02SC3246
2 1503	RES. BUILT-IN TRANSISTOR KSR2205 or	NQSZ0KSR2205
	RES. BUILT-IN TRANSISTOR 2SA1654	QQSZ02SA1654
2 1506	TRANSISTOR KTA1266(GR) or	NQS40KTA1266
	TRANSISTOR 2SA1317(S) or	A1317SZ
	TRANSISTOR 2SA1317(T)	A1317TZ
Q 1507	RES. BUILT-IN TRANSISTOR KRC103M or	NQSZ0KRC103M
	RES. BUILT-IN TRANSISTOR KSR1203 or	NQSZ0KSR1203
	RES. BUILT-IN TRANSISTOR 2SC3400	C3400Z
2 3001	TRANSISTOR KTC3199(GR) or	NQS10KTC3199
	TRANSISTOR KSC2785(Y) or	NQSY0KSC2785
	TRANSISTOR 2SC536SP(E) or	C536SEZ
	TRANSISTOR 2SC536SP(F)	C536SFZ
2 3003	, ,	
2 3003	TRANSISTOR 2SC3193(Y) or	NQSY02SC3193
	TRANSISTOR 2SC2839(E) or	C2839EZ
	TRANSISTOR 2SC2839(F)	C2839FZ
3004	TRANSISTOR 2SC3193(Y) or	NQSY02SC3193
	TRANSISTOR 2SC2839(E) or	C2839EZ
	TRANSISTOR 2SC2839(F)	C2839FZ
3007	TRANSISTOR KTA1267(GR) or	NQS10KTA1267
	TRANSISTOR KSA1175(Y) or	NQSY0KSA1175
	TRANSISTOR 2SA608SP(E) or	A608SEZ
	TRANSISTOR 2SA608SP(F)	
3009	. ,	A608SFZ
3 2003	TRANSISTOR KTA1267(GR) or	NQS10KTA1267
	TRANSISTOR KSA1175(Y) or	NQSY0KSA1175
	TRANSISTOR 2SA608SP(E) or	A608SEZ
	TRANSISTOR 2SA608SP(F)	A608SFZ
3010	TRANSISTOR KTA1267(GR) or	NQS10KTA1267
	TRANSISTOR KSA1175(Y) or	NQSY0KSA1175
	TRANSISTOR 2SA608SP(E) or	A608SEZ
	TRANSISTOR 2SA608SP(F)	A608SFZ
3011	RES. BUILT-IN TRANSISTOR KRA109M	NQSZ0KRA109M
. 50 11	(V-8008SA(N) only) or	INCOLUNDATUSIN
	RES. BUILT-IN TRANSISTOR KSR2208	NQSZ0KSR2208
	(V-8008SA(N) only)or	INGOLUNONZZUÓ
	RES. BUILT-IN TRANSISTOR 2SA1347	QQSZ02SA1347

Ref. No.	Description	Part No.
Q 3012	RES. BUILT-IN TRANSISTOR KRC103M or	NQSZ0KRC103N
	RES. BUILT-IN TRANSISTOR KSR1203 or	NQSZ0KSR1203
0.0040	RES. BUILT-IN TRANSISTOR 2SC3400	C3400Z
Q 3013	TRANSISTOR 2SC3193(Y) or	NQSY02SC3193
	TRANSISTOR 2SC2839(E) or	C2839EZ
Q 3090	TRANSISTOR 2SC2839(F)	C2839FZ
Q 3090	TRANSISTOR KTA1266(GR) or	NQS40KTA1266
	TRANSISTOR 2SA1317(S) or	A1317SZ
0.4004	TRANSISTOR 2SA1317(T)	A1317TZ
Q 4001 Q 4002	TRANSISTOR 2SC3331(T)	QSC3331TNPAA
Q 4002	TRANSISTOR KTA1267(GR) or	NQS10KTA1267
	TRANSISTOR KSA1175(Y) or	NQSY0KSA1175
	TRANSISTOR 2SA608SP(E) or	A608SEZ
Q 4003	TRANSISTOR 2SA608SP(F)	A608SFZ
Q 4003	TRANSISTOR KTC3199(GR) or	NQS10KTC3199
	TRANSISTOR KSC2785(Y) or	NQSY0KSC2785
	TRANSISTOR 2SC536SP(E) or	C536SEZ
0.4004	TRANSISTOR 2SC536SP(F)	C536SFZ
Q 4004	RES. BUILT-IN TRANSISTOR KRC103M or	NQSZ0KRC103M
	RES. BUILT-IN TRANSISTOR KSR1203 or	NQSZ0KSR1203
0 6000	RES. BUILT-IN TRANSISTOR 2SC3400	C3400Z
Q 6002	TRANSISTOR KTA1267(GR) or	NQS10KTA1267
	TRANSISTOR KSA1175(Y) or	NQSY0KSA1175
	TRANSISTOR 2SA608SP(E) or	A608SEZ
0.000	TRANSISTOR 2SA608SP(F)	A608SFZ
Q 6006	TRANSISTOR KTC3199(GR) or	NQS10KTC3199
	TRANSISTOR KSC2785(Y) or	NQSY0KSC2785
	TRANSISTOR 2SC536SP(E) or	C536SEZ
Q 6007	TRANSISTOR 2SC536SP(F)	C536SFZ
Q 6007 Q 6008	PHOTO TRANSISTOR PT380FB	QP4B00PT380F
Q 7001	PHOTO TRANSISTOR PT380FB	QP4B00PT380F
Q 7001	TRANSISTOR KTC3199(GR) or	NQS10KTC3199
	TRANSISTOR KSC2785(Y) or TRANSISTOR 2SC536SP(E) or	NQSY0KSC2785
	TRANSISTOR 2SC536SP(E) or	C536SEZ
Q 7002	RES. BUILT-IN TRANSISTOR KSR2205 or	C536SFZ
Q 1002	RES. BUILT-IN TRANSISTOR ASA2205 OF	NQSZ0KSR2205
Q 7003	RES. BUILT-IN TRANSISTOR 25A1654	QQSZ02SA1654 NQSZ0KSR2205
Q 1000	RES. BUILT-IN TRANSISTOR 2SA1654	
Q 7004	RES. BUILT-IN TRANSISTOR 25A1694	QQSZ02SA1654 NQSZ0KSR2205
Q 7004	RES. BUILT-IN TRANSISTOR 2SA1654	QQSZ02SA1654
Q 7007	TRANSISTOR KTC3199(GR) or	NQS10KTC3199
Q 1001	TRANSISTOR KSC2785(Y) or	NQSY0KSC2785
	TRANSISTOR 2SC536SP(E) or	C536SEZ
	TRANSISTOR 2SC536SP(F)	C536SFZ
	RESISTORS	C3303FZ
R 1001	FIXED METAL OXIDE FILM RES. 2W J 4.7 Ω	RN024R7KE005
R 1002	FIXED METAL OXIDE FILM RES. 2W J 82K $\Omega$	RN02JZPZ0823
	or	1 11402021 20020
	FIXED METAL OXIDE FILM RES. 2W J 82K $\Omega$	1330513
R 1004	CARBON RES. 1/4W J 56K $\Omega$	RCX4JATZ0563
R 1005	CARBON RES. 1/4W J 56K Ω	RCX4JATZ0563
	CARBON RES. 1/4W J 56K Ω	RCX4JATZ0563
R 1006		
	CARBON RES. 1/4W J 56K $\Omega$	RCX4JATZ0563
R 1007	CARBON RES. 1/4W J 56K $\Omega$ CARBON RES. 1/4W J 39 $\Omega$	RCX4JATZ0563 RCX4JATZ0390
R 1007 R 1008		RCX4JATZ0390
R 1007 R 1008 R 1009	CARBON RES. 1/4W J 39 $\Omega$	RCX4JATZ0390 RCX4JATZ0390
R 1007 R 1008 R 1009 R 1010	CARBON RES. 1/4W J 39 $\Omega$ CARBON RES. 1/4W J 39 $\Omega$	RCX4JATZ0390 RCX4JATZ0390 RCX4JATZ0390
R 1007 R 1008 R 1009 R 1010 R 1011	CARBON RES. 1/4W J 39 $\Omega$ CARBON RES. 1/4W J 39 $\Omega$ CARBON RES. 1/4W J 39 $\Omega$	RCX4JATZ0390 RCX4JATZ0390 RCX4JATZ0390 RCX4JATZ0392
R 1007 R 1008 R 1009 R 1010 R 1011 R 1012	CARBON RES. 1/4W J 39 $\Omega$ CARBON RES. 1/4W J 39 $\Omega$ CARBON RES. 1/4W J 39 $\Omega$ CARBON RES. 1/4W J 3.9K $\Omega$ CARBON RES. 1/4W J 220 $\Omega$	RCX4JATZ0390 RCX4JATZ0390 RCX4JATZ0390 RCX4JATZ0392 RCX4JATZ0221
R 1007 R 1008 R 1009 R 1010 R 1011 R 1012 R 1013	CARBON RES. 1/4W J 39 $\Omega$ CARBON RES. 1/4W J 39 $\Omega$ CARBON RES. 1/4W J 39 $\Omega$ CARBON RES. 1/4W J 3.9K $\Omega$ CARBON RES. 1/4W J 220 $\Omega$ CARBON RES. 1/4W J 47K $\Omega$	RCX4JATZ0390 RCX4JATZ0390 RCX4JATZ0390 RCX4JATZ0392 RCX4JATZ0221 RCX4JATZ0473
R 1007 R 1008 R 1009 R 1010 R 1011 R 1012 R 1013 R 1014	CARBON RES. 1/4W J 39 $\Omega$ CARBON RES. 1/4W J 39 $\Omega$ CARBON RES. 1/4W J 39 $\Omega$ CARBON RES. 1/4W J 3.9K $\Omega$ CARBON RES. 1/4W J 220 $\Omega$ CARBON RES. 1/4W J 47K $\Omega$ CARBON RES. 1/4W J 47K $\Omega$	RCX4JATZ0390 RCX4JATZ0390 RCX4JATZ0390 RCX4JATZ0392 RCX4JATZ0221 RCX4JATZ0473 RCX4JATZ0473
R 1007 R 1008 R 1009 R 1010 R 1011 R 1012 R 1013 R 1014 R 1015	CARBON RES. 1/4W J 39 $\Omega$ CARBON RES. 1/4W J 39 $\Omega$ CARBON RES. 1/4W J 39 $\Omega$ CARBON RES. 1/4W J 3.9K $\Omega$ CARBON RES. 1/4W J 220 $\Omega$ CARBON RES. 1/4W J 47K $\Omega$	RCX4JATZ0390 RCX4JATZ0390 RCX4JATZ0390 RCX4JATZ0392 RCX4JATZ0221 RCX4JATZ0473 RCX4JATZ0473 RCX4JATZ0473
R 1007 R 1008 R 1009 R 1010 R 1011 R 1012 R 1013 R 1014 R 1015 R 1016	CARBON RES. $1/4$ W J $39$ $\Omega$ CARBON RES. $1/4$ W J $39$ $\Omega$ CARBON RES. $1/4$ W J $39$ $\Omega$ CARBON RES. $1/4$ W J $3.9$ K $\Omega$ CARBON RES. $1/4$ W J $220$ $\Omega$ CARBON RES. $1/4$ W J $47$ K $\Omega$	RCX4JATZ0390 RCX4JATZ0390 RCX4JATZ0390 RCX4JATZ0392 RCX4JATZ0221 RCX4JATZ0473 RCX4JATZ0473 RCX4JATZ0473 RCX4JATZ0473
R 1007 R 1008 R 1009 R 1010 R 1011 R 1012 R 1013 R 1014 R 1015	CARBON RES. 1/4W J 39 $\Omega$ CARBON RES. 1/4W J 39 $\Omega$ CARBON RES. 1/4W J 39 $\Omega$ CARBON RES. 1/4W J 3.9K $\Omega$ CARBON RES. 1/4W J 220 $\Omega$ CARBON RES. 1/4W J 47K $\Omega$	RCX4JATZ0390 RCX4JATZ0390 RCX4JATZ0390 RCX4JATZ0392 RCX4JATZ0221 RCX4JATZ0473 RCX4JATZ0473 RCX4JATZ0473

941206 3-3-4 V2400EL 941206 3-3-5 V2400EL V2400EL

Ref. No.	Description	Part No.	Ref. No.	Description	Part No.
R 1020	CARBON RES. 1/4W J 470 Ω	RCX4JATZ0471	R 3043	CARBON RES. 1/4W J 2.7K Ω	RCX4JATZ0272
R 1021	CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102	R 3044	CARBON RES. 1/4W J 2.7K Ω	RCX4JATZ0272
R 1022	CARBON RES. 1/4W J 47 Ω	RCX4JATZ0470	R 3045	CARBON RES. 1/4W J 560 $\Omega$	RCX4JATZ0561
R 1023	CARBON RES. 1/4W G 3K Ω	RCX4GATZ0302	R 3046	CARBON RES. 1/4W J 390 Ω	RCX4JATZ0391
R 1024	CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821	R 3047	CARBON RES. 1/4W J 1.8K Ω	RCX4JATZ0182
R 1025	CARBON RES. 1/4W G 2.2K Ω	RCX4GATZ0222	R 3053	CARBON RES. 1/4W J 1M Ω	RCX4JATZ0105
R 1026	CARBON RES. 1/4W J 680 Ω	RCX4JATZ0681	R 3054	CARBON RES. 1/4W J 8.2K Ω	RCX4JATZ0822
R 1027	CARBON RES. 1/4W J 680 Ω	RCX4JATZ0681	R 3056	CARBON RES. 1/4W J 22K Ω	RCX4JATZ0223
R 1027	CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102	R 3057	CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R 1028	CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102	R 3058	CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102
R 1501	CARBON RES. 1/4W J 4.7K Ω	RCX4JATZ0472	R 3059	CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102
R 1502	CARBON RES. 1/4W J 15K Ω	RCX4JATZ0153	R 3060	CARBON RES. 1/4W J 270 Ω	RCX4JATZ0271
R 1504	CARBON RES. 1/4W J 4.7K Ω	RCX4JATZ0472	R 3061	CARBON RES. 1/4W J 270 Ω	RCX4JATZ0271
R 1505	CARBON RES. 1/4W J 4.7K Ω	RCX4JATZ0472	R 3062	CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102
R 1506	PCB JUMPER D0.6-P5.0	JW5.0T	R 3063	CARBON RES. 1/4W J 82K Ω	RCX4JATZ0823
R 1512	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103	R 3064	CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102
R 1512	CARBON RES. 1/4W J 10K $\Omega$	RCX4JATZ0473	R 3066	CARBON RES. 1/4W J 5.6K Ω	RCX4JATZ0562
	CARBON RES. 1/4W J 4/K Ω	RCX4JATZ0102	R 3067	CARBON RES. 1/4W J 3.0K S2	RCX4JATZ0272
R 1515			R 3068	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
R 3001	CARBON RES. 1/4W J 1.5K Ω	RCX4JATZ0152	1		RCX4JATZ0681
R 3002	CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102	R 3090	CARBON RES. 1/4W J 680 Ω	RCX4JATZ0681
R 3003	CARBON RES. 1/4W J 470 Ω	RCX4JATZ0471	R 3091	CARBON RES. 1/4W J 680 Ω	RCX4JATZ0221
R 3004	CARBON RES. 1/4W J 3.9K $\Omega$	RCX4JATZ0392	R 3092 R 3101	CARBON RES. 1/4W J 220 $\Omega$ CARBON RES.1/4W J 4.3K $\Omega$ (V-8008CM(N)	RCX4JATZ0432
R 3005	• • • • • • • • • • • • • • • • • • • •	RCX4JATZ0152	HSIUI	only)	HUX4JA1ZU43Z
R 3006 R 3007	CARBON RES. 1/4W J 3.9K Ω CARBON RES. 1/4W J 1.2K Ω	RCX4JATZ0392 RCX4JATZ0122	R 3102	CARBON RES.1/4W J 1.5K $\Omega$ (V-8008CM(N) only)	RCX4JATZ0152
R 3007	(V-8008CM(N) only)  CARBON RES. 1/4W J 1.2K Ω  (V-8008SA(N) only)	RCX4JATZ0152	R 3103	CARBON RES.1/4W J 1M Ω (V-8008CM(N) only)	RCX4JATZ0105
R 3008	CARBON RES. 1/4W J 5.6K Ω	RCX4JATZ0562	R 3104	CARBON RES.1/4W J 1M $\Omega$ (V-8008CM(N) only)	RCX4JATZ0105
R 3009 R 3010	CARBON RES. 1/4W J 8.2K $\Omega$ CARBON RES. 1/4W J 22K $\Omega$	RCX4JATZ0822 RCX4JATZ0223	R 3105	CARBON RES.1/4W J 22K Ω (V-8008CM(N) only)	RCX4JATZ0223
R 3011 R 3012	CARBON RES. 1/4W J 10K $\Omega$ CARBON RES. 1/4W J 3.9K $\Omega$	RCX4JATZ0103 RCX4JATZ0392	R 3106	CARBON RES. 1/4W J 820 $\Omega$ (V-8008CM(N) only)	RCX4JATZ0821
R 3013 R 3014	CARBON RES. 1/4W J 100 $\Omega$	RCX4JATZ0101 RCX4JATZ0222	R 3107	CARBON RES.1/4W J 2.7K $\Omega$ (V-8008CM(N) only)	RCX4JATZ0272
R 3016	CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102	R 3108	CARBON RES.1/4W J 2.2K $\Omega$ (V-8008CM(N) only)	RCX4JATZ0222
R 3017	CARBON RES. 1/4W J 390 Ω	RCX4JATZ0391	R 4002	CARBON RES. 1/4W J 22K Ω	RCX4JATZ0223
R 3018	CARBON RES. 1/4W J 390 Ω	RCX4JATZ0391	R 4003	CARBON RES. 1/4W J 330K Ω	RCX4JATZ0334
R 3019	CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102	R 4004	CARBON RES. 1/4W J 12K Ω	RCX4JATZ0123
R 3020	CARBON RES. 1/4W J 680 Ω	RCX4JATZ0681	R 4005	CARBON RES. 1/4W J 120 Ω	RCX4JATZ0121
R 3021	CARBON RES. 1/4W J 820 $\Omega$ (V-8008CM(N) only)	RCX4JATZ0821	R 4006	CARBON RES. 1/4W J 5.6K Ω	RCX4JATZ0562
R 3022	CARBON RES. 1/4W J 330 Ω	RCX4JATZ0331	R 4007	CARBON RES. 1/4W J 1.8M Ω	RCX4JATZ0185
R 3024	CARBON RES. 1/4W J 27K Ω	RCX4JATZ0273	R 4008	CARBON RES. 1/4W J 15K Ω	RCX4JATZ0153
R 3025	CARBON RES. 1/4W J 8.2K Ω	RCX4JATZ0822	R 4009	CARBON RES. 1/4W J 6.8K Ω	RCX4JATZ0682
R 3026	CARBON RES. 1/4W J 5.6K Ω	RCX4JATZ0562	R 4010	CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
R 3027	CARBON RES. 1/4W J 470 Ω	RCX4JATZ0471	R 4011	CARBON RES. 1/4W J 1.8K Ω	RCX4JATZ0182
R 3028	CARBON RES. 1/4W J 2.7K Ω	RCX4JATZ0272	R 4012	CARBON RES. 1/4W J 1.8K Ω	RCX4JATZ0182
R 3029	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103	R 4013	CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102
R 3030	CARBON RES. 1/4W J 470 Ω	RCX4JATZ0471	R 4014	CARBON RES. 1/4W J 2.2K Ω	RCX4JATZ0222
R 3031	CARBON RES. 1/4W J 2.7K Ω	RCX4JATZ0272	R 4018	CARBON RES. 1/4W J 22 Ω	RCX4JATZ0220
R 3032	CARBON RES. 1/4W J 10K Ω (V-8008CM(N)	RCX4JATZ0103	R 4019	CARBON RES. 1/4W J 47 Ω	RCX4JATZ0470
	only)		R 4020	CARBON RES. 1/4W J 4.7K Ω	RCX4JATZ0472
R 3032	CARBON RES. 1/4W J 15K $\Omega$ (V-8008SA(N) only)	RCX4JATZ0153	R 4021 R 4022	CARBON RES. 1/4W J 4.7 $\Omega$ CARBON RES. 1/4W J 3.9K $\Omega$	RCX4JATZ04R7 RCX4JATZ0392
R 3033	CARBON RES. 1/4W J 680 Ω	RCX4JATZ0681	R 4023	CARBON RES. 1/4W J 2.2K Ω	RCX4JATZ0222
R 3034	PCB JUMPER D0.6-P5.0 (V-8008CM(N) only)	JW5.0T	R 4024	CARBON RES. 1/4W J 180 Ω	RCX4JATZ0181
R 3034	CARBON RES. 1/4W J 100 $\Omega$ (V-8008SA(N) only)	RCX4JATZ0101	R 4025	CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102
R 3035	CARBON RES. 1/4W J 470 $\Omega$	RCX4JATZ0471	R 4027	CARBON RES. 1/4W J 2.2K Ω	RCX4JATZ0222
R 3036	CARBON RES. 1/4W J 2.2K Ω	RCX4JATZ0222	R 6001	CARBON RES. 1/4W J 4.7K Ω	RCX4JATZ0472
R 3037	CARBON RES. 1.4W J 22K Ω (V-8008SA(N)	RCX4JATZ0223	R 6003 R 6004	CARBON RES. 1/4W J 10K $\Omega$ CARBON RES. 1/4W J 10K $\Omega$	RCX4JATZ0103 RCX4JATZ0103
R 3038	only)   CARBON RES. 1/4W J 4.7K Ω	RCX4JATZ0472	R 6006	CARBON RES. 1/4W J 47K Ω	RCX4JATZ0473
R 3038	CARBON RES. 1:4W J 1.8K $\Omega$	RCX4JATZ0182	R 6007	CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102
R 3040	CARBON RES. 1 4W J 470 $\Omega$	RCX4JATZ0471	R 6009	PCB JUMPER D0.6-P5.0	JW5.0T
R 3040	CARBON RES. 1/4W J 470 Ω	RCX4JATZ0471	R 6011	CARBON RES. 1/4W J 1 Ω	RCX4JATZ0010
I R 3 IM 1					

Ref. No.	Description	Part No.
R 6013	CARBON RES. 1/4W J 1 Ω	RCX4JATZ0010
R 6014	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
R 6015	CARBON RES. 1/4W J 1.5K Ω	RCX4JATZ0152
R 6016	CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
R 6017	CARBON RES. 1/4W J 22K Ω	RCX4JATZ0223
R 6018	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
R 6019	CARBON RES. 1/4W J 12K Ω	RCX4JATZ0123
R 6024	CARBON RES. 1/4W J 6.2 Ω	RCX4JATZ06R2
R 6025	CARBON RES. 1/4W J 6.2 Ω	RCX4JATZ06R2
R 6026	CARBON RES. 1/4W J 1.8K Ω	RCX4JATZ0182
R 6027	CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102
R 6028	CARBON RES. 1/4W J 1.2K Ω	RCX4JATZ0122
R 6029	CARBON RES. 1/4W J 1.5K Ω	RCX4JATZ0152
R 6030	CARBON RES. 1/4W J 2.2K Ω	RCX4JATZ0222
R 6031	CARBON RES. 1/4W J 3.9K Ω	RCX4JATZ0392
R 6032	CARBON RES. 1/4W J 8.2K Ω	RCX4JATZ0822
R 6035	CARBON RES. 1/4W J 4.7K Ω	RCX4JATZ0472
R 6036	CARBON RES. 1/4W J 47K Ω	RCX4JATZ0473
R 6037	CARBON RES. 1/4W J 39K Ω	RCX4JATZ0393
R 6038	CARBON RES. 1/4W J 2.2K Ω	RCX4JATZ0222
R 6039	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
R 6041	CARBON RES. 1/4W J 2.2K Ω	RCX4JATZ0222
R 6042	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
R 6044	CARBON RES. 1/4W J 330K Ω	RCX4JATZ0334
R 6045	CARBON RES. 1/4W J 4.7K $\Omega$	RCX4JATZ0472
R 6046	CARBON RES. 1/4W J 47K Ω	RCX4JATZ0473
R 6047	CARBON RES. 1/4W J 4.7M Ω	RCX4JATZ0475
	CARBON RES. 1/4W J 470 Ω	RCX4JATZ0471
R 6051	CARBON RES. 1/4W J 2.2K Ω	RCX4JATZ0222
R 6052	CARBON RES. 1/4W J 330K $\Omega$	RCX4JATZ0334
R 6053	PCB JUMPER D0.6-P5.0	JW5.0T
R 6054	CARBON RES. 1/4W J 180K $\Omega$	RCX4JATZ0184
R 6055	CARBON RES. 1/4W J 10K $\Omega$	RCX4JATZ0103
R 6056	CARBON RES. 1/4W J 10K $\Omega$	RCX4JATZ0103
R 6057	CARBON RES. 1/4W J 10K $\Omega$	RCX4JATZ0103
R 6058	CARBON RES. 1/4W J 2.2K $\Omega$	RCX4JATZ0222
R 6059	CARBON RES. 1/4W J 220K $\Omega$	RCX4JATZ0224
	CARBON RES. 1/4W J 47K $\Omega$	RCX4JATZ0473
	CARBON RES. 1/4W J 6.8K $\Omega$	RCX4JATZ0682
	CARBON RES. 1/4W J 2.7K $\Omega$	RCX4JATZ0272
	CARBON RES. 1/4W J 680K $\Omega$	RCX4JATZ0684
R 6065	CARBON RES. 1/4W J 820 Ω	RCX4JATZ0821
R 6066	CARBON RES. 1/4W J 470K $\Omega$	RCX4JATZ0474
	CARBON RES. 1/4W J 2.2K $\Omega$	RCX4JATZ0222
R 6068	CARBON RES. 1/4W J 330K Ω	RCX4JATZ0334
	CARBON RES. 1/4W J 56 Ω	RCX4JATZ0560
	CARBON RES. 1/4W J 56 Ω	RCX4JATZ0560
	CARBON RES. 1/4W J 56 Ω	RCX4JATZ0560
	CARBON RES. 1/4W J 56 Ω	RCX4JATZ0560
1	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
	CARBON RES. 1/4W J 82K Ω	RCX4JATZ0823
	CARBON RES. 1/4W J 4.7K Ω	RCX4JATZ0472
	CARBON RES. 1/4W J 4.7K Ω	RCX4JATZ0472
	CARBON RES. 1/4W J 680K Ω	RCX4JATZ0684
	CARBON RES. 1/4W J 680K Ω	RCX4JATZ0684
	CARBON RES. 1/4W J 47K (2	RCX4JATZ0473
1	CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
	CARBON RES. 1/4W J 22K (2	RCX4JATZ0223
	CARBON RES. 1/4W J 22K (2	RCX4JATZ0223
i	CARBON RES. 1/4W J 22K (2	RCX4JATZ0223
	CARBON RES. 1/4W J 22K (2	RCX4JATZ0223
	CARBON RES. 1/4W J 10K Q	RCX4JATZ0103
_	CARBON RES. 1/4W J 10K \( \Omega\)	RCX4JATZ0103
D 0405	CARBON RES. 1/4W J 4.7K Ω	DCV4 IATZ0470
	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0472

Ref. No.		Part No.
R 6112	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
R 6113	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
R 6115	CARBON RES. 1/4W J 10K Ω (V-8008SA(N)	RCX4JATZ0103
R 6116	only) CARBON RES. 1/4W J 10K Ω (V-8008CM(N)	DOYA IATZO LOO
Nono	only)	RCX4JATZ0103
R 6118	CARBON RES. 1/4W J 22K Ω	RCX4JATZ0223
R 6119	CARBON RES. 1/4W J 10K Ω (V-8008CM(N)	RCX4JATZ0103
	only)	110/40/120103
R 6120	CARBON RES. 1/4W J 10K Ω (V-8008SA(N)	RCX4JATZ0103
	only)	
R 6121	CARBON RES. 1/4W J 10K Ω (V-8008SA(N)	RCX4JATZ0103
R 6122	ONLY)	DOV414770.00
110122	CARBON RES. 1/4W J 10K $\Omega$ (V-8008CM(N) only)	RCX4JATZ0103
R 6123	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
R 6133	CARBON RES. 1/4W J 18K Ω	RCX4JATZ0183
R 6134	CARBON RES. 1/4W J 18K $\Omega$	RCX4JATZ0183
R 6136	CARBON RES. 1/4W J 10K $\Omega$	RCX4JATZ0103
R 6137	CARBON RES. 1/4W J 10K $\Omega$	
R 6140	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
		RCX4JATZ0103
R 6141	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
R 6142	CARBON RES. 1/4W J 22K Ω	RCX4JATZ0223
R 6143	CARBON RES. 1/4W J 4.7K Ω	RCX4JATZ0472
R 7001	CARBON RES. 1/4W J 47K Ω	RCX4JATZ0473
R 7002	CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102
R 7003	CARBON RES. 1/4W J 33K Ω	RCX4JATZ0333
R 7004	CARBON RES. 1/4W J 1.5K Ω	RCX4JATZ0152
R 7005	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
R 7006	CARBON RES. 1/4W J 15K Ω	RCX4JATZ0153
R 7007	CARBON RES. 1/4W J 27K Ω	RCX4JATZ0273
R 7008	CARBON RES. 1/4W J 27K Ω	RCX4JATZ0273
R 7009	CARBON RES. 1/4W J 39K Ω	RCX4JATZ0393
R 7010	CARBON RES. 1/4W J 15K Ω	RCX4JATZ0153
R 7011	CARBON RES. 1/4W J 560K Ω	RCX4JATZ0564
R 7012	CARBON RES. 1/4W J 560K $\Omega$	RCX4JATZ0564
R 7013	CARBON RES. 1/4W J 75 $\Omega$	
R 7016	CARBON RES. 1/4W J 10K $\Omega$	RCX4JATZ0750
R 7017	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
R 7021	CARBON RES. 1/4W J 300K $\Omega$	RCX4JATZ0104
R 7022	CARBON RES. 1/4W J 330K $\Omega$	RCX4JZPZ0334
R 7501		RCX4JATZ0334
	CARBON RES. 1/4W J 22K Ω	RCX4JATZ0223
R 7502	CARBON RES. 1/4W J 100K Ω	RCX4JATZ0104
R 7503	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
R 7504	CARBON RES. 1/4W J 75 Ω	RCX4JATZ0750
R 7505	CARBON RES. 1/4W J 68 Ω	RCX4JATZ0680
R 7506	CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
R 7507	CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
R 7509	CARBON RES. 1/4W J 22K Ω	RCX4JATZ0223
R 7510	CARBON RES. 1/4W J 820 $\Omega$	RCX4JATZ0821
	SWITCHES	
SW6002	TACT SWITCH TS-1230BM or	SST0101VK002
	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH DHT-1102C or	SST0101LJ001
	TACT SWITCH KPT-1105BM or	SST0101JP001
	TACT SWITCH EVQ PAC 09K or	SST01013F001
	TACT SWITCH SKHHAP	
SW6004	TACT SWITCH TS-1230BM or	SST0101AL028
31,3004	TACT SWITCH TS-1230BM or	SST0101VK002
		SST0101HH013
	TACT SWITCH DHT-1102C or	SST0101LJ001
	TACT SWITCH KPT-1105BM or	SST0101JP001
	TACT SWITCH EVQ PAC 09K or	SST0101MS017
	TACT SWITCH SKHHAP	SST0101AL028
SW6005	TACT SWITCH TS-1230BM or	SST0101VK002
	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH DHT-1102C or	CCT01011 1001
-	THE SWITCH DITI-1102C OF	SST0101LJ001

941206 3-3-6 V2400EL <sup>941206</sup> 3-3-7 V2400EL

Ref. No.	Description	Part No.
	TACT SWITCH EVQ PAC 09K or	SST0101MS017
	TACT SWITCH SKHHAP	SST0101AL028
SW6006	TACT SWITCH TS-1230BM or	SST0101VK002
	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH DHT-1102C or	SST0101LJ001
	TACT SWITCH KPT-1105BM or	SST0101JP001
	TACT SWITCH EVQ PAC 09K or	SST0101MS017
	TACT SWITCH SKHHAP	SST0101AL028
SW6007	TACT SWITCH TS-1230BM or	SST0101VK002
	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH DHT-1102C or	SST0101LJ001
	TACT SWITCH KPT-1105BM or	SST0101JP001
	TACT SWITCH EVQ PAC 09K or	SST0101MS017
	TACT SWITCH SKHHAP	SST0101AL028
SW6008	TACT SWITCH TS-1230BM or	SST0101VK002
	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH DHT-1102C or	SST0101LJ001
	TACT SWITCH KPT-1105BM or	SST0101JP001
	TACT SWITCH EVQ PAC 09K or	SST0101MS017
	TACT SWITCH SKHHAP	SST0101AL028
SW6009	TACT SWITCH TS-1230BM or	SST0101VK002
	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH DHT-1102C or	SST0101LJ001
	TACT SWITCH KPT-1105BM or	SST0101JP001
	TACT SWITCH EVQ PAC 09K or	SST0101MS017
	TACT SWITCH SKHHAP	SST0101AL028
SW6012	PUSH SWITCH SPPB61 or	SSP0102AL001
	PUSH SWITCH JPS1120-0601H	SSP0102SR001
	VARIABLE RESISTORS	
VR3001	CARBON P.O.T. 4.7K Ω B or	638A472
	CARBON P.O.T. 5K Ω B or	VRCB502HH005
	CARBON P.O.T. 5K Ω B	138J780
VR3002	CARBON P.O.T. 4.7K Ω B or	638A472
	CARBON P.O.T. 5K Ω B or	VRCB502HH005
	CARBON P.O.T. 5K Ω B	138J780
VR3003	CARBON P.O.T. 4.7K Ω B or	638A472
	CARBON P.O.T. 5K Ω B or	VRCB502HH005
	CARBON P.O.T. 5K Ω B	138J780
VR6001	CARBON P.O.T. 100K Ω B or	638A104
	CARBON P.O.T. 100K Ω B or	VRCB104HH005
	CARBON P.O.T. 100K Ω B	138J785
	CRYSTAL OSCILLATORS	
X 3001	X'TAL 4.433619MHZ or	1811388
	X'TAL 4.433619MHZ or	1811366
	X'TAL 4.433619MHZ	FXC445LGM001
X 6001	X'TAL 12MHZ or	FXE126LFS001
	X'TAL 12MHZ or	FXE126LCU002
	X'TAL 12MHZ or	FXE126LDS011
	X'TAL 12MHZ	FXE126LGM001
X 6002	X'TAL 32KHZ(10PPM)	1811350
	MISCELLANEOUS	
	WIRE TIE PLT.7M	1790571
	LEAD CLAMPER or	1790356
	LEAD CLAMPER GT-80M	XF00080HL001
2B 4	HOLDER, F.I.P.(L)	0VM301820
2B 5	HOLDER, F.I.P.(R)	0VM301821
2B 8	BUSH, LED	6N50114
2B 9	HOLDER, L.E.D.	0VM405711
2B 10	HEATSINK	0VM406060
2L 034	SCREW, A-TIGHT M3X10 BIND HEAD+	DBM13100
2L 034 2L 071	SCREW, S-TIGHT M3X5 BIND HEAD+	GBMS3050
	SCREW, P-TIGHT 3X10 BIND HEAD+	GBKP3100
2L 081	JACK BOARD U9-PAL-RCA(BG/DK)	0VM201605
A 17		
AC1001 💇	AC CORD LA-1296-2 or	WAE0202LW006
	AC CORD EP-631-E01 or	WAE0202NW008
	AC CORD	WAE0202BX001

Ref. No.	Description	Part No.
F 1001 🛧	FUSE T1.60AH250V or	PAGC20BAG162
	FUSE T1.60AH250V	PBGZ20CDX006
FH1001	FUSE HOLDER FH-V-03078-1 or	XH01Z00DK002
	HOLDER, FUSE CNT41-0014	1790424
FH1002	FUSE HOLDER FH-V-03078-1 or	XH01Z00DK002
	HOLDER, FUSE CNT41-0014	1790424
FP6001	F.I.P. 10-BT-121G	TVFD1C0FT025
PS6001	REEL SENSOR GP1S38 or	PCZLAZZSH001
	REEL SENSOR SG-224	PCZLAZZKK004
SN6001	DEW SENSOR EYHS-10R4	PCZHUMZMS004
T 1001 🛕	PULSE TRANS S1026F A0576	LTT00ZPSA009
T 4001	COIL, OSC 7QM3 C-14284A or	LFA07V0VD001
	COIL, OSC K7-J1 R12 N657X	LFA07V0MM038
TU7001	TUNER/IF/CONV. UNIT EC-RB-0164 (V-8008CM(N) only)	UTUNPSDNE002
TU7001	TUNER/IF/CONV. UNIT EC-RB-0165 (V-8008SA(N) only)	UTUNPSLNE002
W 01	WIRE	WX3801A84404

### REMOTE SENSOR CBA (MCV-C)

Ref. No.	Description	Part No.
	REMOTE SENSOR (MCV-C) CBA	
	Consists of the following:	
RS6001	REMOTE CONTROL UNIT NJH32H367A	USESJRSJR004

### REMOTE SENSOR CBA (MCV-D)

Ref. No.	Description	Part No.
	REMOTE SENSOR (MCV-D) CBA	
	Consists of the following:	
RS6001	REMOTE CONTROL UNIT HC-278N or	USESJRSKK008
	REMOTE CONTROL UNIT GP1U582X	USESJRSSH009

## FUNCTION CBA (FNT) Ref. No. Description

Ref. No.	Description	Part No.			
	FUNCTION (FNT) CBA	0VSA06693			
	Consists of the following:				
	CONNECTOR				
CN5501	HINGED SOCKET CONNECTOR 4P	JCTRG04TG002			
	RESISTORS				
R 5502	CARBON RES. 1/4W J 8.2K Ω	RCX4JATZ0822			
R 5503	CARBON RES. 1/4W J 3.9K Ω	RCX4JATZ0392			
R 5504	CARBON RES. 1/4W J 2.2K $\Omega$	RCX4JATZ0222			
R 5505	CARBON RES. 1/4W J 1.5K $\Omega$	RCX4JATZ0152			
R 5506	CARBON RES. 1/4W J 1.2K Ω	RCX4JATZ0122			
R 5507	CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102			
R 5508	CARBON RES. 1/4W J 1.8K Ω	RCX4JATZ0182			
	SWITCHES				
SW5502	TACT SWITCH TS-1230BM or	SST0101VK002			
	TACT SWITCH KSM0614B or	SST0101HH013			
	TACT SWITCH DHT-1102C or	SST0101LJ001			
	TACT SWITCH KPT-1105BM or	SST0101JP001			
	TACT SWITCH EVQ PAC 09K or	SST0101MS017			
	TACT SWITCH SKHHAP	SST0101AL028			
SW5503	TACT SWITCH TS-1230BM or	SST0101VK002			
	TACT SWITCH KSM0614B or	SST0101HH013			
	TACT SWITCH DHT-1102C or	SST0101LJ001			
	TACT SWITCH KPT-1105BM or	SST0101JP001			
	TACT SWITCH EVQ PAC 09K or	SST0101MS017			
	TACT SWITCH SKHHAP	SST0101AL028			
SW5504	TACT SWITCH TS-1230BM or	SST0101VK002			
	TACT SWITCH KSM0614B or	SST0101HH013			
	TACT SWITCH DHT-1102C or	SST0101LJ001			
1	TACT SWITCH KPT-1105BM or	SST0101JP001			
	TACT SWITCH EVQ PAC 09K or	SST0101MS017			
	TACT SWITCH SKHHAP	SST0101AL028			

SW5505	TACT SWITCH TS-1230BM or	SST0101VK002
	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH DHT-1102C or	SST0101LJ001
	TACT SWITCH KPT-1105BM or	SST0101JP001
	TACT SWITCH EVQ PAC 09K or	SST0101MS017
	TACT SWITCH SKHHAP	SST0101AL028
SW5506	TACT SWITCH TS-1230BM or	SST0101VK002
	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH DHT-1102C or	SST0101LJ001
	TACT SWITCH KPT-1105BM or	SST0101JP001
	TACT SWITCH EVQ PAC 09K or	SST0101MS017
	TACT SWITCH SKHHAP	SST0101AL028
SW5507	TACT SWITCH TS-1230BM or	SST0101VK002
	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH DHT-1102C or	SST0101LJ001
	TACT SWITCH KPT-1105BM or	SST0101JP001
	TACT SWITCH EVQ PAC 09K or	SST0101MS017
	TACT SWITCH SKHHAP	SST0101AL028
SW5508	TACT SWITCH TS-1230BM or	SST0101VK002
	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH DHT-1102C or	SST0101LJ001
	TACT SWITCH KPT-1105BM or	SST0101JP001
	TACT SWITCH EVQ PAC 09K or	SST0101MS017
	TACT SWITCH SKHHAP	SST0101AL028

#### **JACK CBA**

	4-44	
Ref. No.	Description	Part No.
	JACK CBA	0VSA06695
	Consists of the following:	
JK7502	RCA JACK YKB11-0265	JXRJ030JC001
JK7503	RCA JACK YKB11-0265	JXRJ030JC001
JK7504	RCA JACK(YELLOW) YKB11-0266	JXRJ030JC002
JK7505	RCA JACK(YELLOW) YKB11-0266	JXRJ030JC002
2B 11	HOLDER, JACK P.C.B.	0VM301831
CN7501	PIN HEADER, ANGLE, 6P	5700331

941206 3-3-8 V2400EL 941206 3-3-9 V2400EL

## **DECK MECHANICAL PARTS LIST**

B 2 S S S B 2 S S B 3 L B 4 M B 5 B 6 P B 7 P B 8 B 9 M B 10 B 11 L L	CHASSIS ASSEMBLY SYLINDER ASSEMBLY (V-8008SA(N) only)or SYLINDER ASSEMBLY SYLINDER ASSEMBLY (V-8008CM(N) only)or SYLINDER ASSEMBLY (V-8008CM(N) only)or SYLINDER ASSEMBLY (CADING MOTOR PREPARATION MOTOR HOLDER CALKING ASSEMBLY PINCH ROLLER ARM ASSEMBLY PINCH ARM ASSEMBLY OF PINCH ARM ASSEMBLY OF PULLEY ASSEMBLY MOVING GUIDE S ASSEMBLY	0VSA05627 0VM301885 0VM201486 0VM301796 0VM201335 0VSA04781 0VM403364 0VM4035071 0VSA05848 0VM402387 0VSA05924	B 98 B 103 B 104 B 105 B 108 B 121 B 122 B 123 B 126 B 127	T,G CAP (2) REC ARM A REC ARM B REC SPRING P.S.W F WORM P.S.W C P.S.W (WORM THRUST)	0VM404937 0VM301441H 0VM301442G 0VM403724 0VM402629 0VM402429 0VM402626 0VM403348
B 2 S S S B 3 LL B 5 C B 6 P B 8 P B 8 B 9 B 10 B 11 LL	SYLINDER ASSEMBLY SYLINDER ASSEMBLY (V-8008CM(N) only)or SYLINDER ASSEMBLY LOADING MOTOR PREPARATION MOTOR HOLDER CALKING ASSEMBLY CASSETTE DRIVE LEVER ASSEMBLY PINCH ROLLER ARM ASSEMBLY PINCH ARM ASSEMBLY OF ONLY PULLEY ASSEMBLY MOVING GUIDE S ASSEMBLY	0VM201486 0VM301796 0VM201335 0VSA04781 0VM403364 0VM4035071 0VSA05848 0VM402387 0VSA05924	B 104 B 105 B 108 B 121 B 122 B 123 B 126	REC ARM B REC SPRING P.S.W F WORM P.S.W C P.S.W (WORM THRUST)	0VM301442G 0VM403724 0VM402629 0VM402429 0VM402626
B 2 SS SS B 3 LL B 5 CS B 6 P B 7 P B 8 P B 10 B 11 LL	SYLINDER ASSEMBLY (V-8008CM(N) only)or SYLINDER ASSEMBLY LOADING MOTOR PREPARATION MOTOR HOLDER CALKING ASSEMBLY CASSETTE DRIVE LEVER ASSEMBLY PINCH ROLLER ARM ASSEMBLY PINCH ARM ASSEMBLY OF PINCH ARM ASSEMBLY PULLEY ASSEMBLY MOVING GUIDE S ASSEMBLY	0VM301796 0VM201335 0VSA04781 0VM403364 0VM4035071 0VSA05848 0VM402387 0VSA05924	B 105 B 108 B 121 B 122 B 123 B 126	REC SPRING P.S.W F WORM P.S.W C P.S.W (WORM THRUST)	0VM403724 0VM402629 0VM402429 0VM402626
B 3 LL B 5 C B 6 P B 7 P B 8 B 9 B 10 B 11 LL	SYLINDER ASSEMBLY LOADING MOTOR PREPARATION MOTOR HOLDER CALKING ASSEMBLY CASSETTE DRIVE LEVER ASSEMBLY PINCH ROLLER ARM ASSEMBLY PINCH ARM ASSEMBLY OF PINCH ARM ASSEMBLY PULLEY ASSEMBLY MOVING GUIDE S ASSEMBLY	0VM201335 0VSA04781 0VM403364 0VM4035071 0VSA05848 0VM402387 0VSA05924	B 108 B 121 B 122 B 123 B 126	P.S.W F WORM P.S.W C P.S.W (WORM THRUST)	0VM402629 0VM402429 0VM402626
B 3 L B 4 M B 5 C B 6 P B 7 P B 8 B 9 M B 10 B 11 L L	OADING MOTOR PREPARATION MOTOR HOLDER CALKING ASSEMBLY CASSETTE DRIVE LEVER ASSEMBLY PINCH ROLLER ARM ASSEMBLY PINCH ARM ASSEMBLY or PINCH ARM ASSEMBLY PULLEY ASSEMBLY MOVING GUIDE S ASSEMBLY	0VSA04781 0VM403364 0VM4035071 0VSA05848 0VM402387 0VSA05924	B 121 B 122 B 123 B 126	WORM P.S.W C P.S.W (WORM THRUST)	0VM402429 0VM402626
B 4 M B 5 C B 6 P B 7 P B 8 P B 10 M B 11 L L	MOTOR HOLDER CALKING ASSEMBLY CASSETTE DRIVE LEVER ASSEMBLY PINCH ROLLER ARM ASSEMBLY PINCH ARM ASSEMBLY or PINCH ARM ASSEMBLY PULLEY ASSEMBLY MOVING GUIDE S ASSEMBLY	0VM403364 0VM403507I 0VSA05848 0VM402387 0VSA05924	B 122 B 123 B 126	P.S.W C P.S.W (WORM THRUST)	0VM402626
B 5 C B 6 P B 7 P B 8 P B 10 N B 11 L L	CASSETTE DRIVE LEVER ASSEMBLY PINCH ROLLER ARM ASSEMBLY PINCH ARM ASSEMBLY or PINCH ARM ASSEMBLY PULLEY ASSEMBLY MOVING GUIDE S ASSEMBLY	0VM403507I 0VSA05848 0VM402387 0VSA05924	B 123 B 126	P.S.W (WORM THRUST)	
B 6 P P P P P P P P P P P P P P P P P P	PINCH ROLLER ARM ASSEMBLY PINCH ARM ASSEMBLY OR PINCH ARM ASSEMBLY PULLEY ASSEMBLY MOVING GUIDE S ASSEMBLY	0VSA05848 0VM402387 0VSA05924	B 126		U/WWU3348
B 7 P P B 8 P B 9 N B 10 N B 11 L	PINCH ARM ASSEMBLY OF PINCH ARM ASSEMBLY PULLEY ASSEMBLY MOVING GUIDE S ASSEMBLY	0VM402387 0VSA05924			UV IVI+UUU40
B 8 P P P P P P P P P P P P P P P P P P	PINCH ARM ASSEMBLY PULLEY ASSEMBLY MOVING GUIDE S ASSEMBLY	0VSA05924	R 127	PULLEY	0VM301718D
B 8 P M B 10 N L	PULLEY ASSEMBLY MOVING GUIDE S ASSEMBLY			PULLEY FELT	0VM404952
B 9 N B 10 N B 11 L	MOVING GUIDE S ASSEMBLY		B 128	KICK ARM HOLDER	0VM301716
B 10 N B 11 L		0VSA05505	B 129	PRESS FIT BUSH	0VM403652
B 11 L		0VSA05722	B 130	KICK ARM	0VM404382
1	MOVING GUIDE T ASSEMBLY	0VSA05723	B 131	KICK ARM SPRING	0VM404424
B 12   L	LOADING ARM T ASSEMBLY	0VSA05503	B 132	CLUTCH ASSEMBLY	0VSA05509
	LOADING ARM B ASSEMBLY	0VSA04215	B 133	ARM IDLER ASSEMBLY	0VSA05512
	LOADING ARM M ASSEMBLY	0VM404693	B 137	BUSH CLUTCH	0VM404513
	PINCH ROLLER SP	0VM403949B	B 141	PULLEY SUB ASSEMBLY	0VSA05998
1	LUMIRROR WASHER 3.1X6X0.35	0VM403269	B 142	SHAFT LOCK ASSEMBLY	0VSA04642
	CAM	0VM100453	B 143	GROUND SPRING(U7)	0VM404920A
	LOADING BELT or	0VM403432	B 144	CLUTCH WASHER MK2	0VM404428
1	LOADING BELT	0VM403952	B 146	SPRING SUPPORTER	0VM405084
	P.S.W(CUT)	0VM404679	B 147	STOPPER BOSS	0VM405188
	BAND BRAKE ASSEMBLY	0VSA04658	B 300	FL ASSEMBLY	0VDM06512
	MAIN BRAKE S ASSEMBLY	0VSA04212	B 301	FLBOX	0VM000062
	MAIN BRAKE TASSEMBLY	0VSA04213	B 302	RACK	0VM201456B
	T BRAKE ARM ASSEMBLY	0VSA04641	B 303	F DOOR OPENER R	0VM301992D
	AC HEAD ASSEMBLY	0VSA04756	B 304	DOOR OPENER	0VM302019B
	REEL BASE ASSEMBLY	0VSA04759	B 306 B 307	SLIDER GEAR L F DOOR OPENER R SP	0VM405213 0VM405214C
1	MAIN LEVER ASSEMBLY	0VM402558	B 307	SLIDER SHAFT	0VM405214C
	TAPE GUIDE ASSEMBLY TENSION LEVER SP ASSEMBLY	0VM402560 0VSA04550	B 309	MIRROR	0VM405222
1	CAPSTAN MOTOR F2QKB92	MMDDB5ZSJ002	B 310	MIRROR HOLDER	0VM405224
	MODE CHANGE LEVER	0VM201234G	B 311	DOOR OPENER SP	0VM405225
	M BRAKE(S)SPRING	0VM402579	B 312	CASSETTE DRIVE GEAR	0VM301994
	M BRAKE(S)LEVER	0VM300753	B 313	CASSETTE DRIVE GEAR R SP	0VM405223A
	S BREAKE ARM	0VM301759	B 314	CASSETTE PLATE	0VM301993
1	M BRAKE T ARM SPRING	0VM402582	B 315	SLIDER R	0VM201457F
	T BRAKE SPRING	0VM402580	B 316	DOOR LOCK RELEASE ARM SPRING	0VM402508C
1	HEAD ADJUST SPRING	0VM402567A	B 317	DOOR LOCK RELEASE ARM(3)	0VM405034D
	M LEVER SPRING	0VM402570	B 319	CASSETTE SPRING STOPPER	0VM402507F
	TAPE GUIDE ARM SPRING	0VM402581	B 321	SLIDER L	0VM100515C
1	TAPE GUIDE ARM ADJUST SCREW	0VM403242	B 322	LOCK LEVER SPRING(E)	0VM405677
	ADJUST NUT (B)	0VM404678A	B 323	LOCK LEVER L	0VM405215C
	BT DRIVE ARM	0VM300756K	B 325	DRIVE GEAR REINFORCEMENT(3)	0VM405785
1	CHANGE ARM or	0VM402441E	B 335	GEAR SUPPORTER	0VM405664
1 1	CHANGE ARM A	0VM405857	B 336	SLIDER GEAR R	0VM405696
	BELT FWD or	0VM402397	B 337	EARTH PLATE	0VM405683D
	BELT FWD	0VM403950	B 338	P.S.W CUT (3.1X6X0.25)	0VM405809
	P.S.W B	0VM402625	B 340	RELEASE BUSH	0VM405678
	GROUND BRUSH ASSEMBLY or	0VM404524	B 342	DECK PLATE	0VM302185A
1	GROUND BRUSH ASSEMBLY or	0VM404534	•		
1	GROUND BRUSH ASSEMBLY	0VM404827	L1011	SCREW, C-TIGHT M3X9 PAN HEAD+	GPMC3090
1	FE HEAD HVFHF0002A or	DHVEC01AL001	L1051	SCREW, S-TIGHT M2.6X6 PAN HEAD+ or	GPMS9060
1	FE HEAD VTR-1X2ERS11-109 or	DHVEC01TE001		SCREW(CAPSTAN) M2.6X6 S-TIGHT	0VM405901
	FE HEAD MH-131S/KM131400	DHVEC01LA001	L1053	SCREW, S-TIGHT M2.6X6 PAN HEAD+ or	GPMS9060
	LUMINESCENCE PRISM(B)	0VM301764F		SCREW(CAPSTAN) M2.6X6 S-TIGHT	0VM405901
1	REC ARM SPRING	0VM402578	L1061	SCREW, S-TIGHT M2.6X4 PAN HEAD+	GPMS9040
	SPRING FOR PRESSING PACK or	0VM405684	L1062	SCREW, S-TIGHT M2.6X4 PAN HEAD+	GPMS9040
1	SPRING FOR PRESSING PACK	0VM403674	L1081	SCREW, S-TIGHT M3X6 BIND HEAD+	GBMS3060
1	M LEVER HOLDER	0VM301717	L1091	SCREW, S-TIGHT M3X6 CUP HEAD+	GCMS3060
	RACK SPRING	0VM403894	L1101	SCREW, P-TIGHT BIND HEAD 3X8	GBMP3080

Ref. No.	Description	Parts No
L1103	SCREW, P-TIGHT BIND HEAD 3X8	GBMP3080
L1104	SCREW, P-TIGHT BIND HEAD 3X8	GBMP3080
L1111	SCREW, P-TIGHT M3X8 WASHER HEAD+	GCMP3080
L1112	SCREW, P-TIGHT M3X8 WASHER HEAD+	GCMP3080
L1121	HEXAGON NUT M3	NHMN030
L1151	SCREW, SEMS M3X4 PAN HEAD +	CPM33040
L1191	SCREW, P-TIGHT M2.6X10 PAN HEAD+	GPMP9100
L1202	SCREW, B-TIGHT M3X6 PAN HEAD+	GPMB3060
L1221	SCREW, SPECIAL	0VM403688
L1231	SPACER SCREW ASSEMBLY	0VM403752
L1241	BIND SCREW P-TIGHT M2X6	GBMP2060
L1291	SCREW, P-TIGHT M2.6X6 PAN HEAD+	GPMP9060
L1301	SCREW, P-TIGHT M2.6X8 PAN HEAD+	GPMP9080
L1311	SCREW, B-TIGHT M3X18 PAN HEAD+	GPMB3180

941020 3-4-1 V2400XME 941020 3-4-2 V2400XME

#### **DECK ELECTRICAL PARTS LIST**

PRODUCT SAFETY NOTE: Products marked with a

⚠ have special characteristics important to safety. Before replacing any of these components, read carefully
the product safety notice in this service manual. Don't
degrade the safety of the product through improper servicing.

Head Amp (PRV) CBA

Ref. No.	Description	Part No.
	Head Amp (PRV) CBA	0VSA05794
	Consists of the following:	
	CAPACITORS	
C 3501	CERAMIC CAP. F Z 0.1µF/50V	3F40104T
C 3502	ELECTROLYTIC CAP. 100µF/6.3V M H7	526R107S
C 3503	ELECTROLYTIC CAP. 0.22µF/50V M H7	526W224S
C 3504	CERAMIC CAP. Y M 0.01µF/16V or	3Y4D103T
	CERAMIC CAP. F Z 0.01µF/16V	1220842T
C 3505	CERAMIC CAP. Y M 0.01 µF/16V or	3Y4D103T
	CERAMIC CAP. F Z 0.01µF/16V	1220842T
C 3506	CERAMIC CAP. Y M 0.01 µF/16V or	3Y4D103T
	CERAMIC CAP. F Z 0.01µF/16V	1220842T
C 3507	CERAMIC CAP. F Z 0.1µF/50V	3F40104T
C 3509	CERAMIC CAP. FZ 0.1µF/50V	3F40104T
C 3513	CERAMIC CAP. SLJ 15PF/50V	3S41150T
C 3521	CERAMIC CAP. B J 100PF/50V	3B41101T
C 3522	CERAMIC CAP. SL J 47PF/50V	3S41470T
0 0022	CONNECTORS	
CL3502	JUMPER WIRE, 6P	WX1K7010-002
CN3501	ANGLE SOCKET CONNECTOR 15P	1770610
CN3502	FFC CONNECTOR BASE, SIDE 5P or	JC96J05ERC0C
	FFC CONNECTOR BASE, SIDE 5P	1700471
CN3503	CONNECTOR ASSEMBLY 2P	WX1K7010-007
	IC	
IC3501	IC, VIDEO H-AMP LA7376	QSBLA0SSY035
	COIL	
L 3501	INDUCTOR 22µH-K-26T or	LLAXKDTKA220
	INDUCTOR 22µH-K-26T	LLAXKATTU220
	RESISTORS	
R 3501	CARBON RES. 1/4W J 22K $\Omega$ or	RCX4JATZ0223
	CARBON RES. 1/6W J 22K Ω	132A223T
R 3502	CARBON RES. 1/4W J 8.2K Ω or	RCX4JATZ0822
	CARBON RES. 1/6W J 8.2K Ω	132A822T
R 3503	CARBON RES. 1/4W J 1K $\Omega$ or	RCX4JATZ0102
	CARBON RES. 1/6W J 1K Ω	132A102T
R 3504	CARBON RES. 1/4W J 5.6K $\Omega$ or	RCX4JATZ0562
	CARBON RES. 1/6W J 5.6K $\Omega$	132A562T
R 3505	CARBON RES. 1/4W J 33K $\Omega$ or	RCX4JATZ0333
	CARBON RES. 1/6W J 33K $\Omega$	132A333T
	MISCELLANEOUS	
2B 2	SHIELD, TOP	0VM301927
2B 3	SHIELD, BOTTOM	0VM301928

PRODUCT SAFETY NOTE: Products marked with a have special characteristics important to safety. Be
∧ have special characteristics important to safety. Be-

Tolerance of Capacitors and Resistors are noted with the following symbols.

C±0.25%	D±0.5%	F±1%
G±2%	J±5%	K±10%
M±20%	N±30%,	Z+80/-209

#### **Jnt CBA**

Ref. No.	Description	Part No.
	Jnt CBA	0VSA05796
	Consists of the following:	
	Joint (Joint-A) CBA	
	Mode SW (Joint-B) CBA	
	ACE Head (Joint-C) CBA	

#### Joint (Joint-A) CBA

Ref. No.	Description	Part No.
	Joint (Joint-A) CBA	
	Consists of the following:	
	CONNECTORS	
CN2801	FFC CONNECTOR BASE, TOP 9P or	JC2SJ09ERH0C
	FFC CONNECTOR BASE, TOP 9P or	1700915
	FFC CONNECTOR BASE, TOP 9P or	1700449
	FFC CONNECTOR BASE, TOP 9P or	1700515
	FFC CONNECTOR BASE, TOP 9P	1700986
CN2901	ANGLE SOCKET CONNECTOR, 20P	1770615
CN2902	ANGLE PIN HEADER, 2P	1740775
RESISTORS		
R 2801	CARBON RES. 1/4W J 27K $\Omega$ or	RCX4JATZ0273
	CARBON RES. 1/6W J 27K Ω	132A273T
R 2802	CARBON RES. 1/4W J 27K Ω or	RCX4JATZ0273
	CARBON RES. 1/6W J 27K Ω	132A273T
MISCELLANEOUS		
CL2901	JUMPER WIRE, 5P	WX1K7010-003
CL2902	JUMPER WIRE, 6P	WX1K7010-001
	FFC CABLE, 9P	WX3909QZ4413

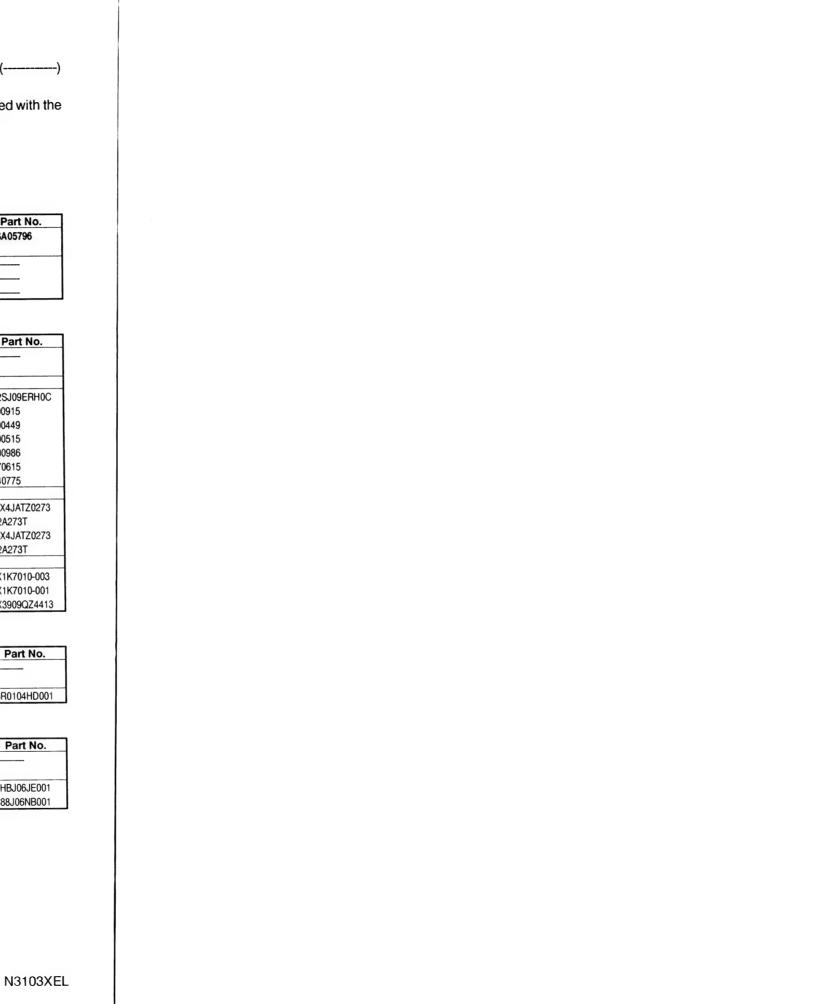
#### Mode SW (Joint-B) CBA

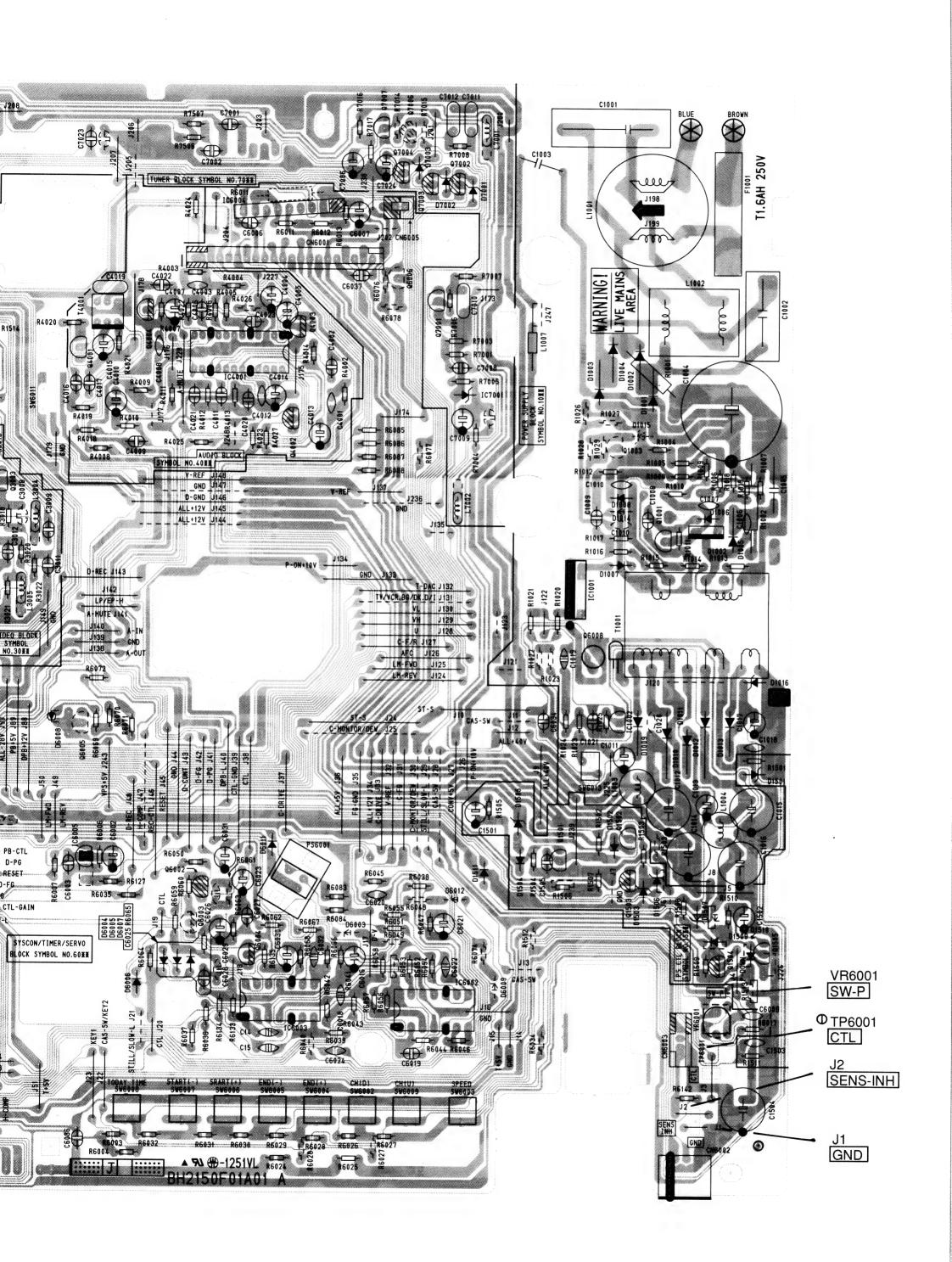
Ref. No.	Description	Part No.
	Mode SW (Joint-B) CBA	
	Consists of the following:	
SW2901	MODE SWITCH HMW0420-710010	SSR0104HD001

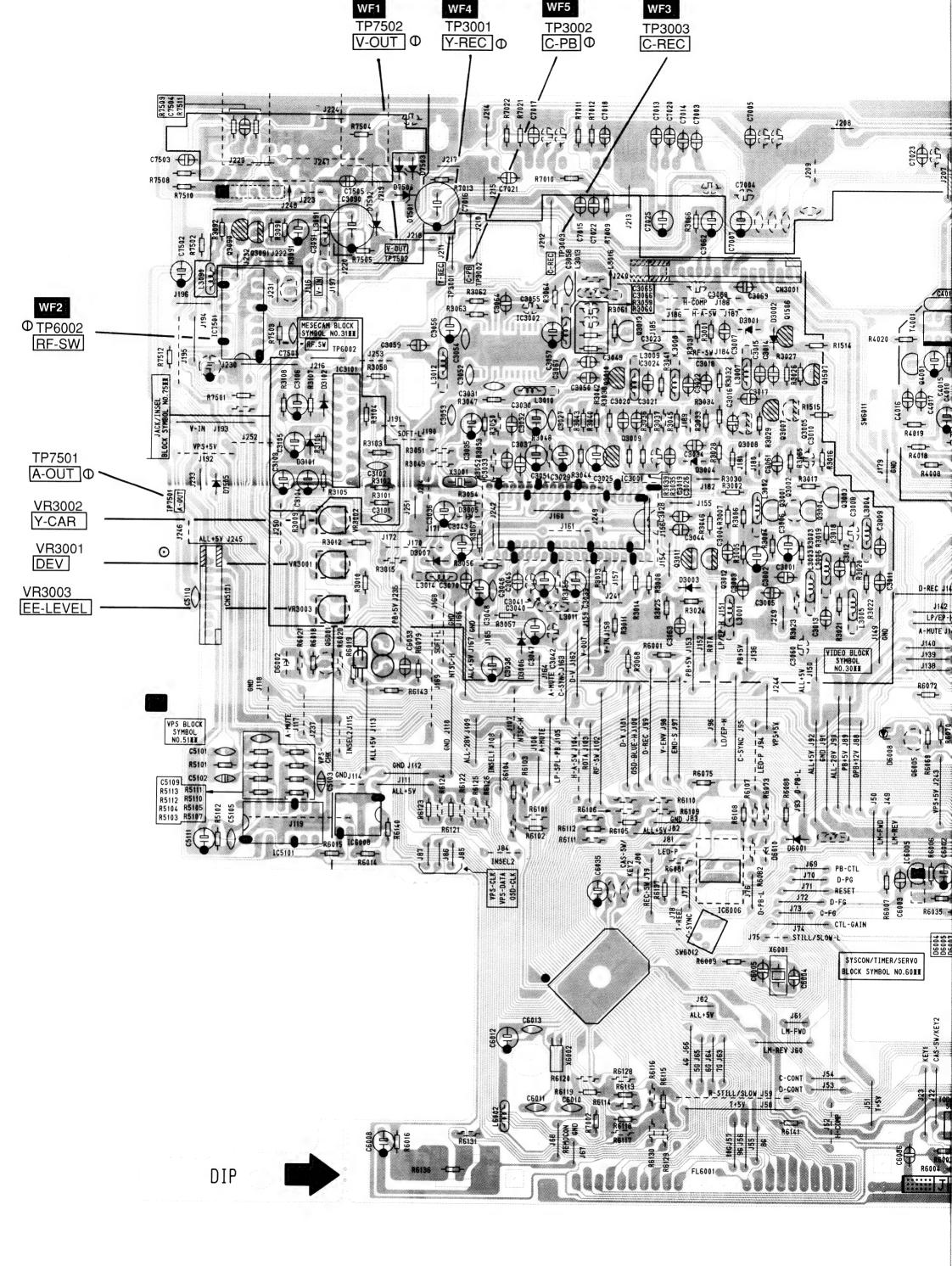
#### ACE Head (Joint-C) CBA

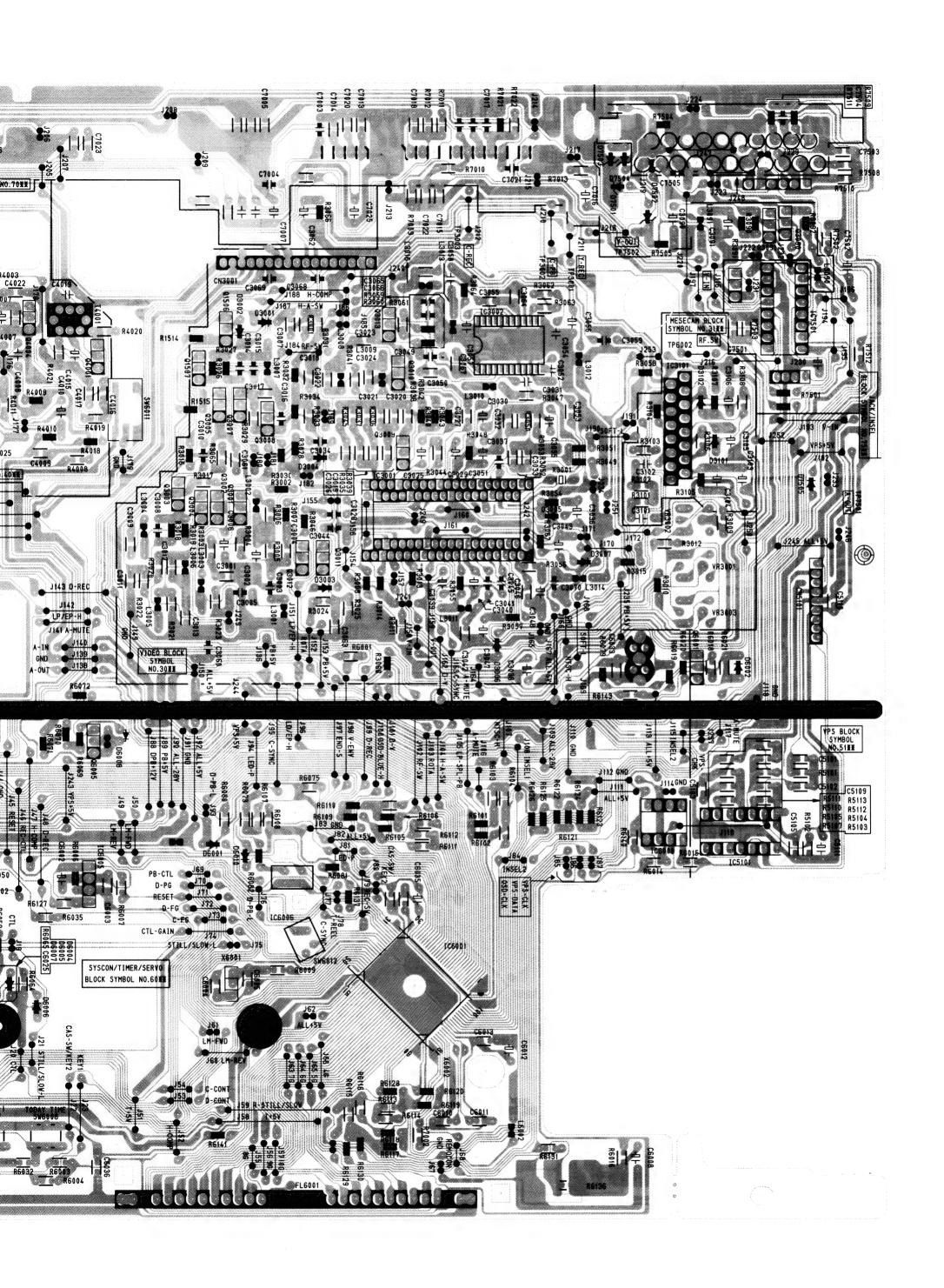
Ref. No.	Description	Part No.
	ACE Head (Joint-C) CBA	
	Consists of the following:	
CN2903	FLAT CABLE CONNECTOR 6P or	JEHBJ06JE001
	FLAT CABLE CONNECTOR 6P	JC88J06NB001

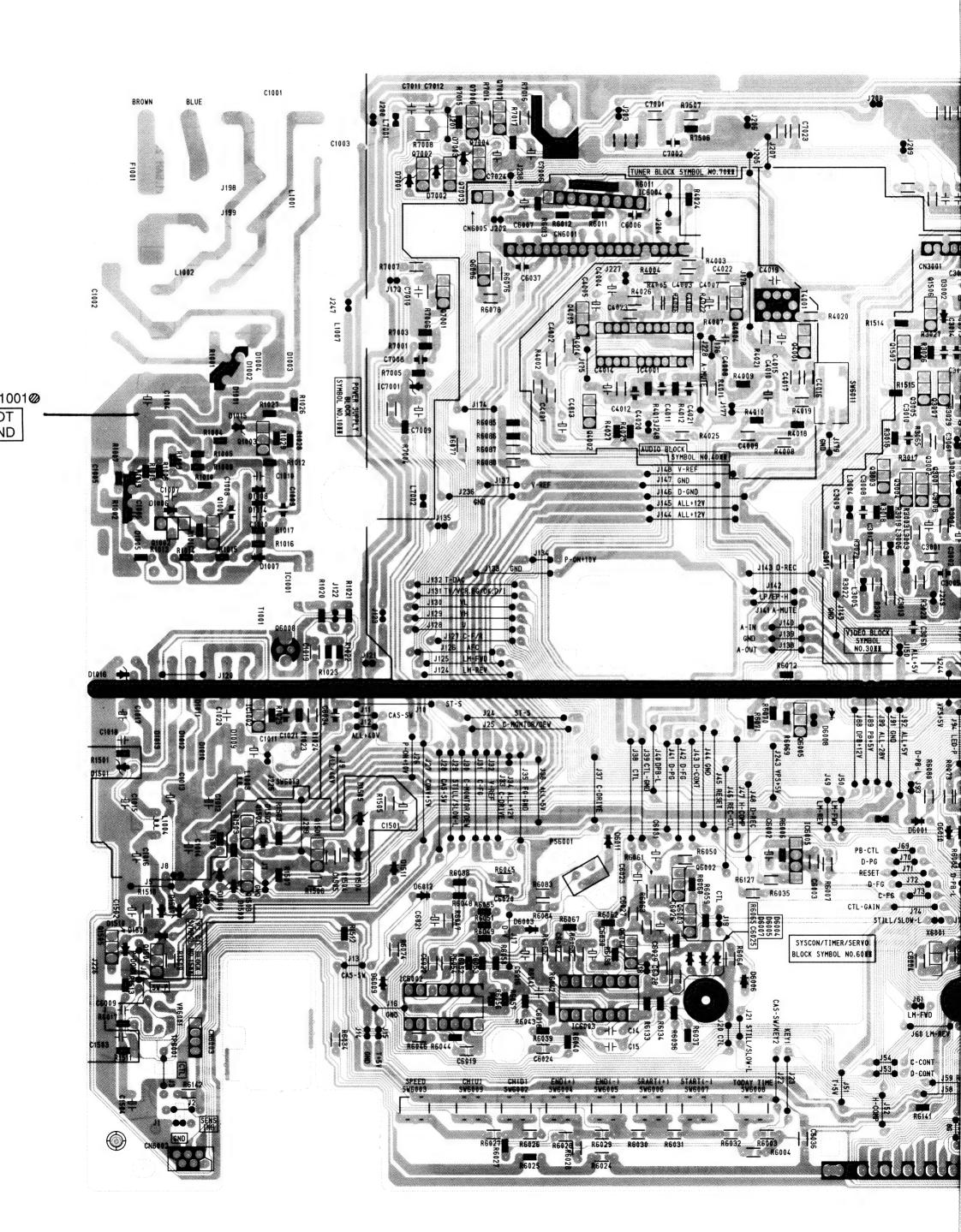
940615 3-5-1 N3103XEL











### **Main CBA Bottom View**

(Serial No. H42410001 ~ H42413500)

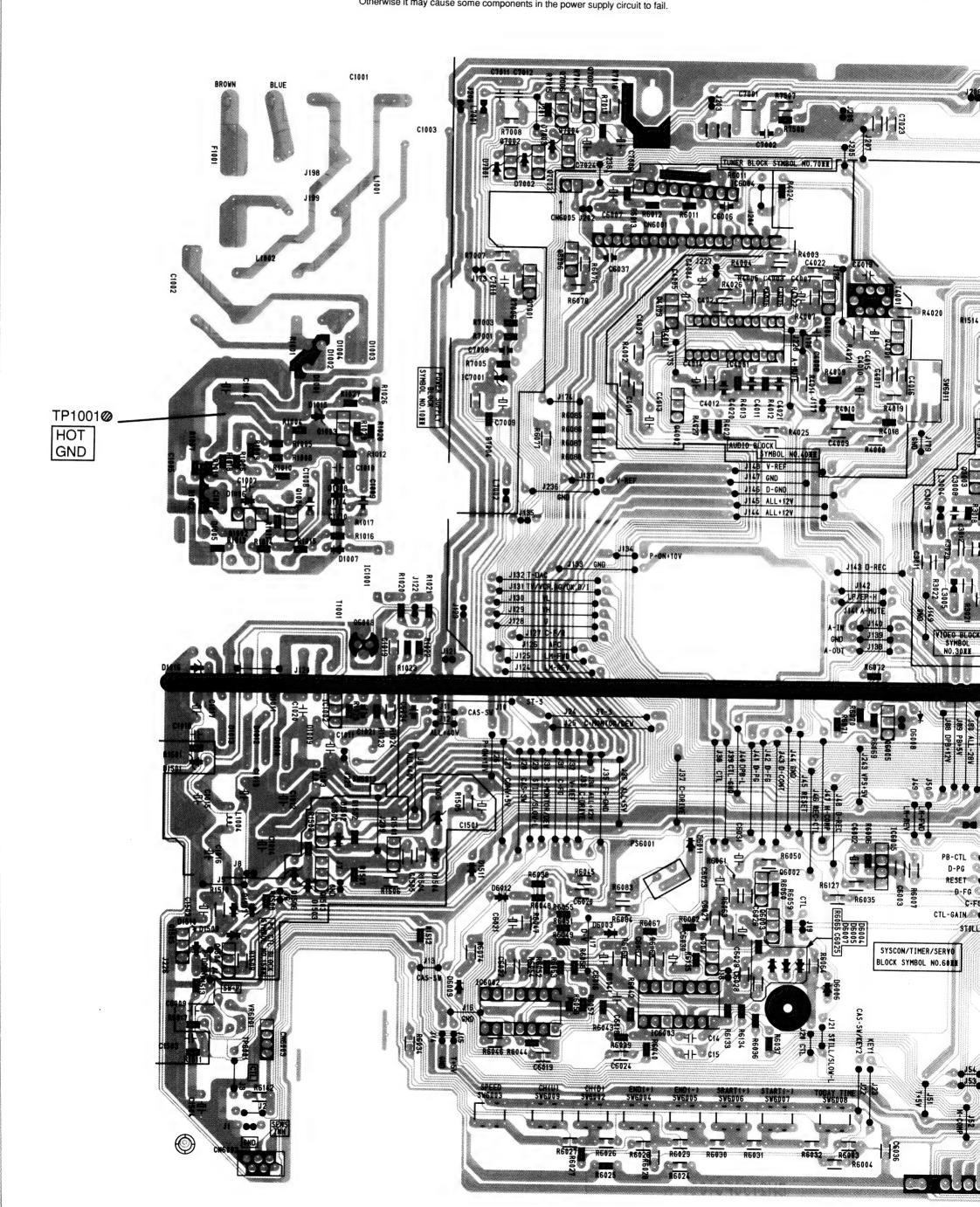
CAUTION!

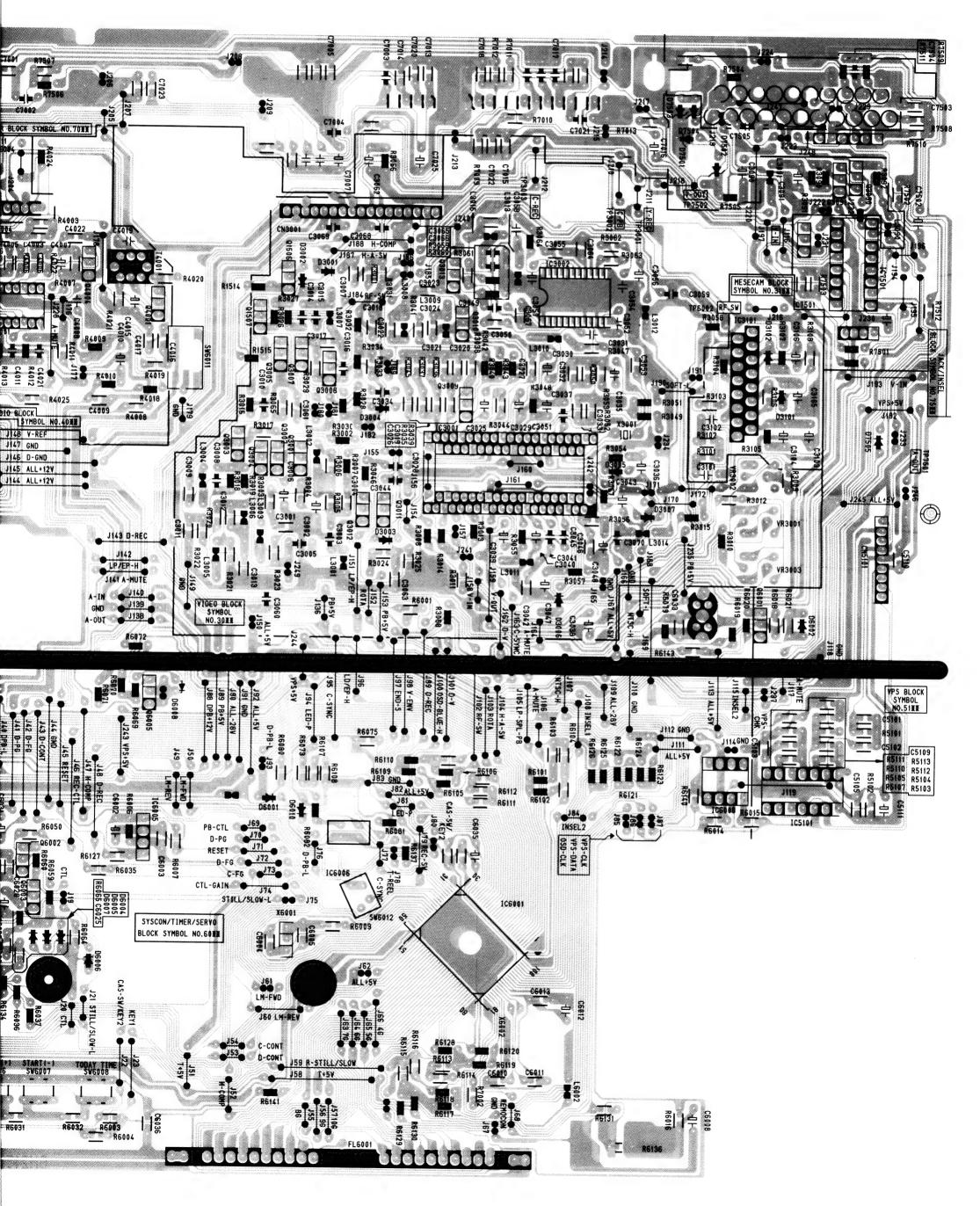
Fixed voltage power supply circuit is used in this unit.

If Main Fuse (F01) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

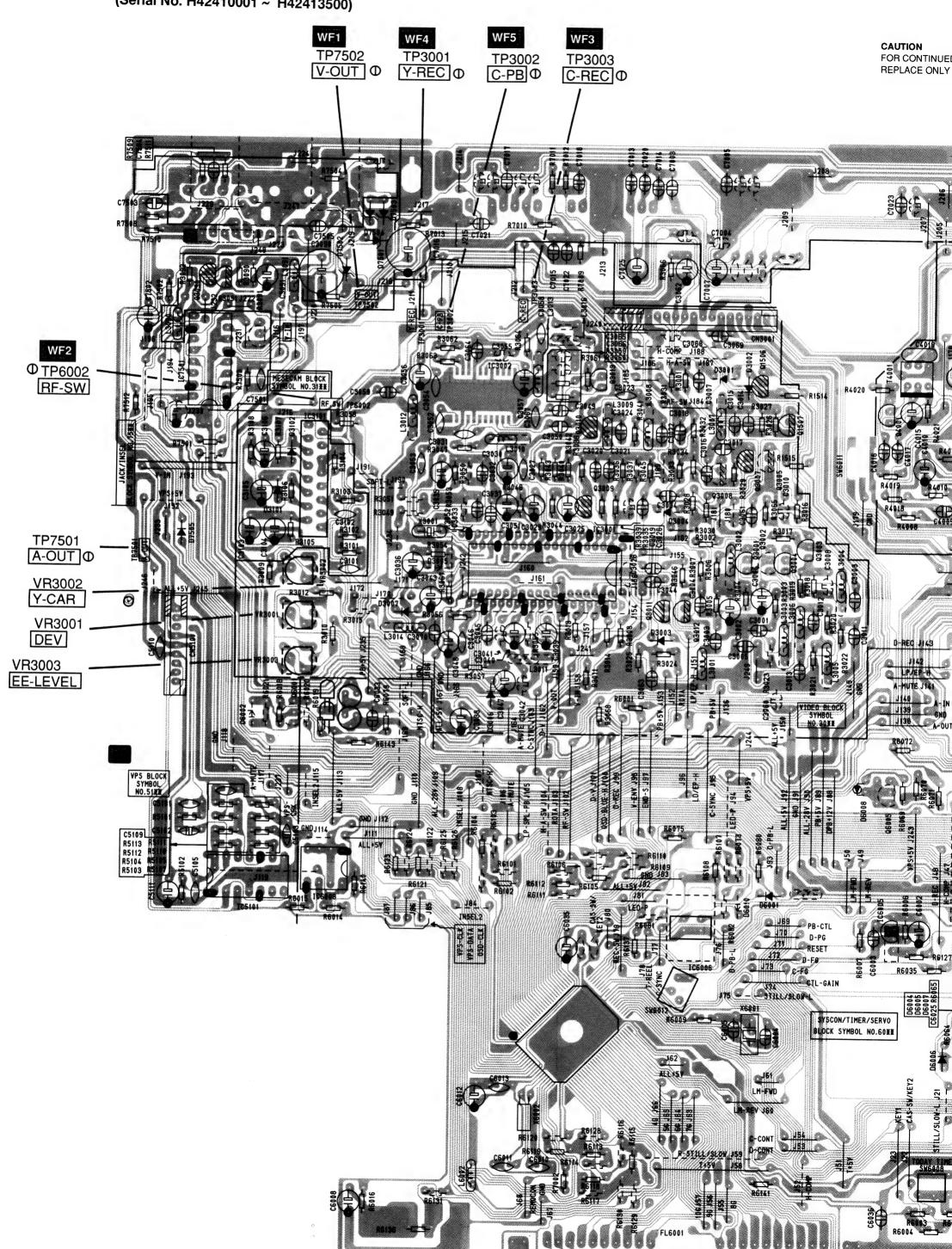
#### CAUTION

FOR CONTINUED PROTECTION AGAINST REPLACE ONLY WITH THE SAME TYPE FU





(Serial No. H42410001 ~ H42413500)



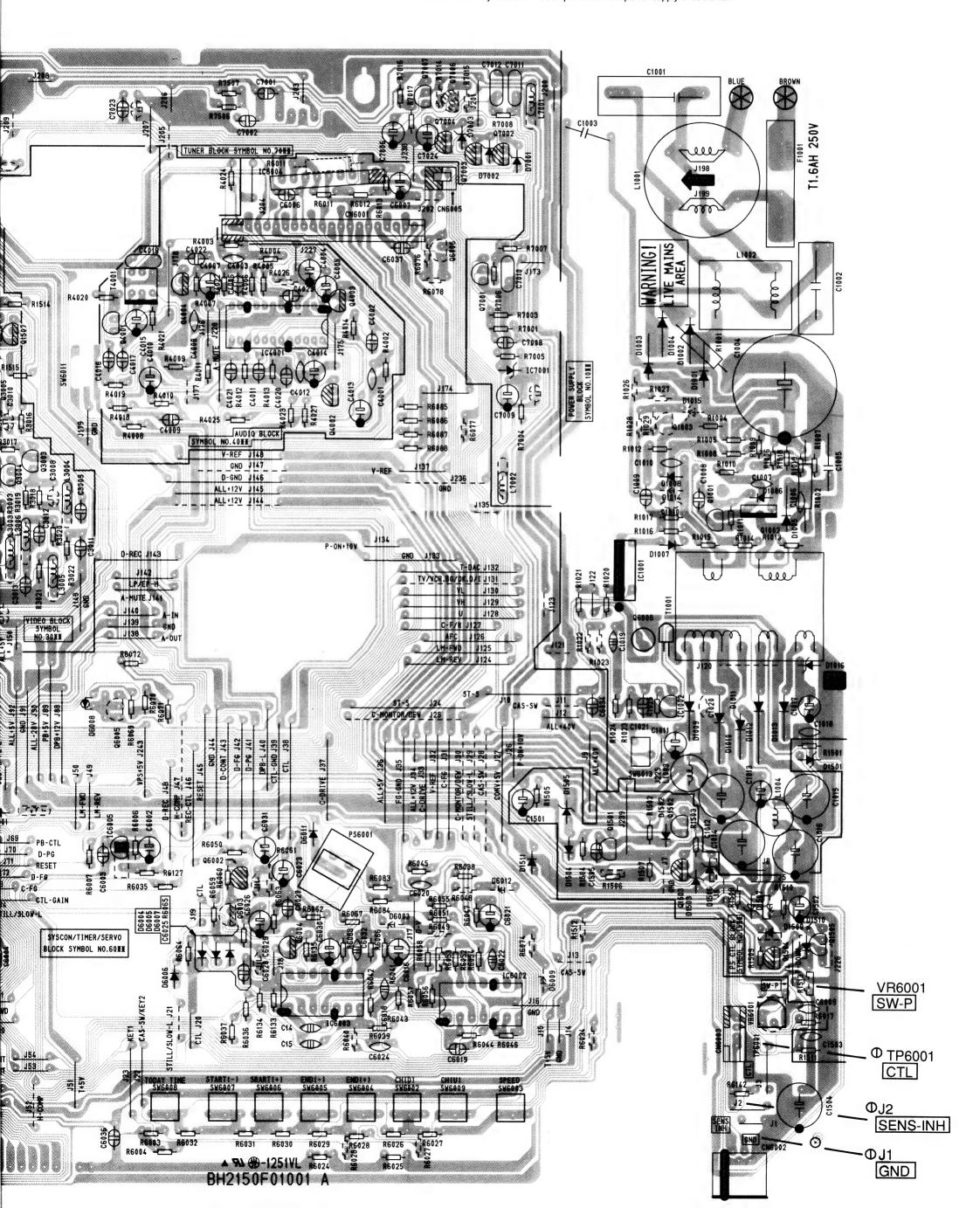
#### CAUTION

FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE.

#### **CAUTION!**

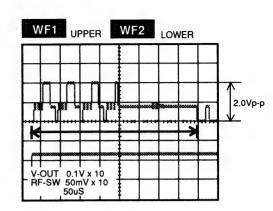
Fixed voltage power supply circuit is used in this unit.

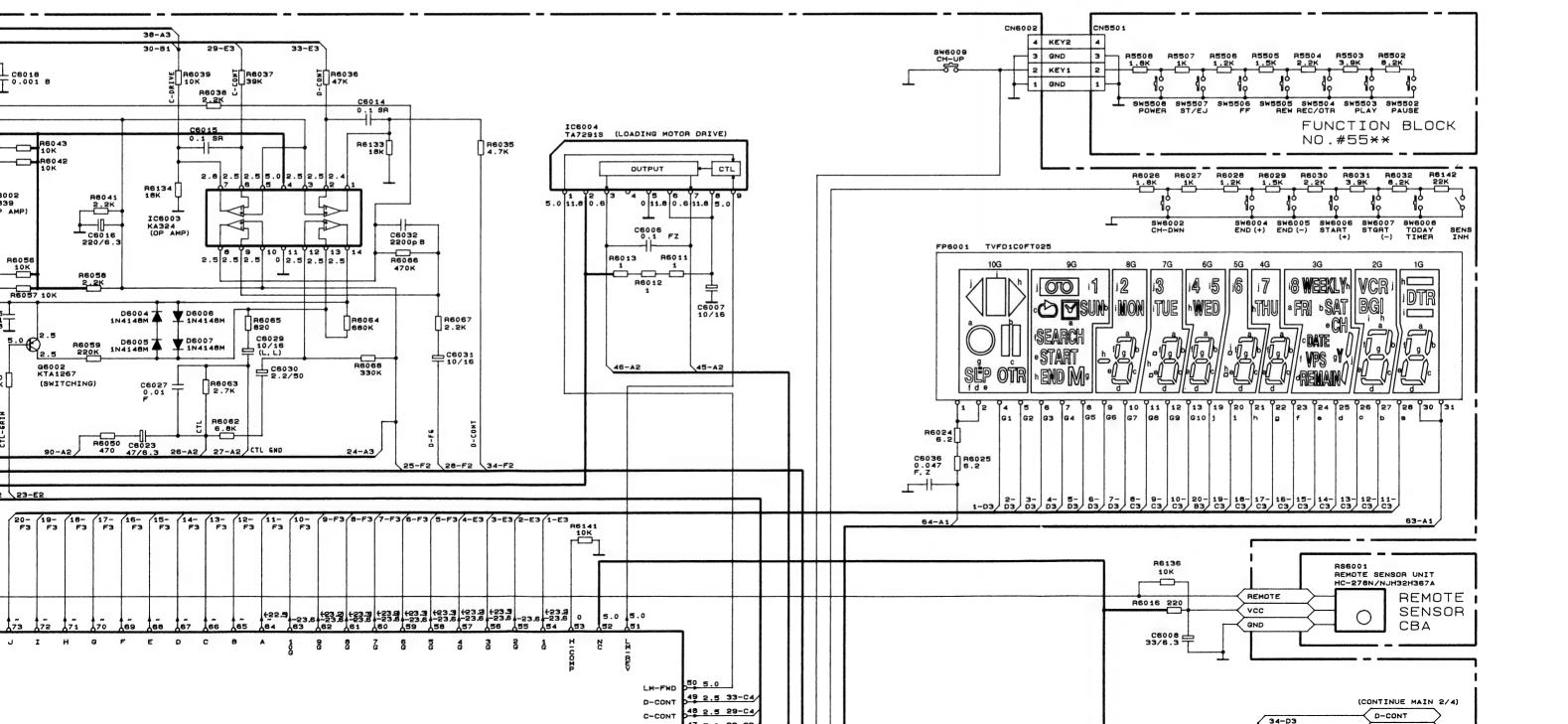
If Main Fuse (F01) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.



#### Comparison Charts of Models and Marks.

MODEL NO.	MARK
V-8008CM(N)	Α
V-8008SA(N)	В

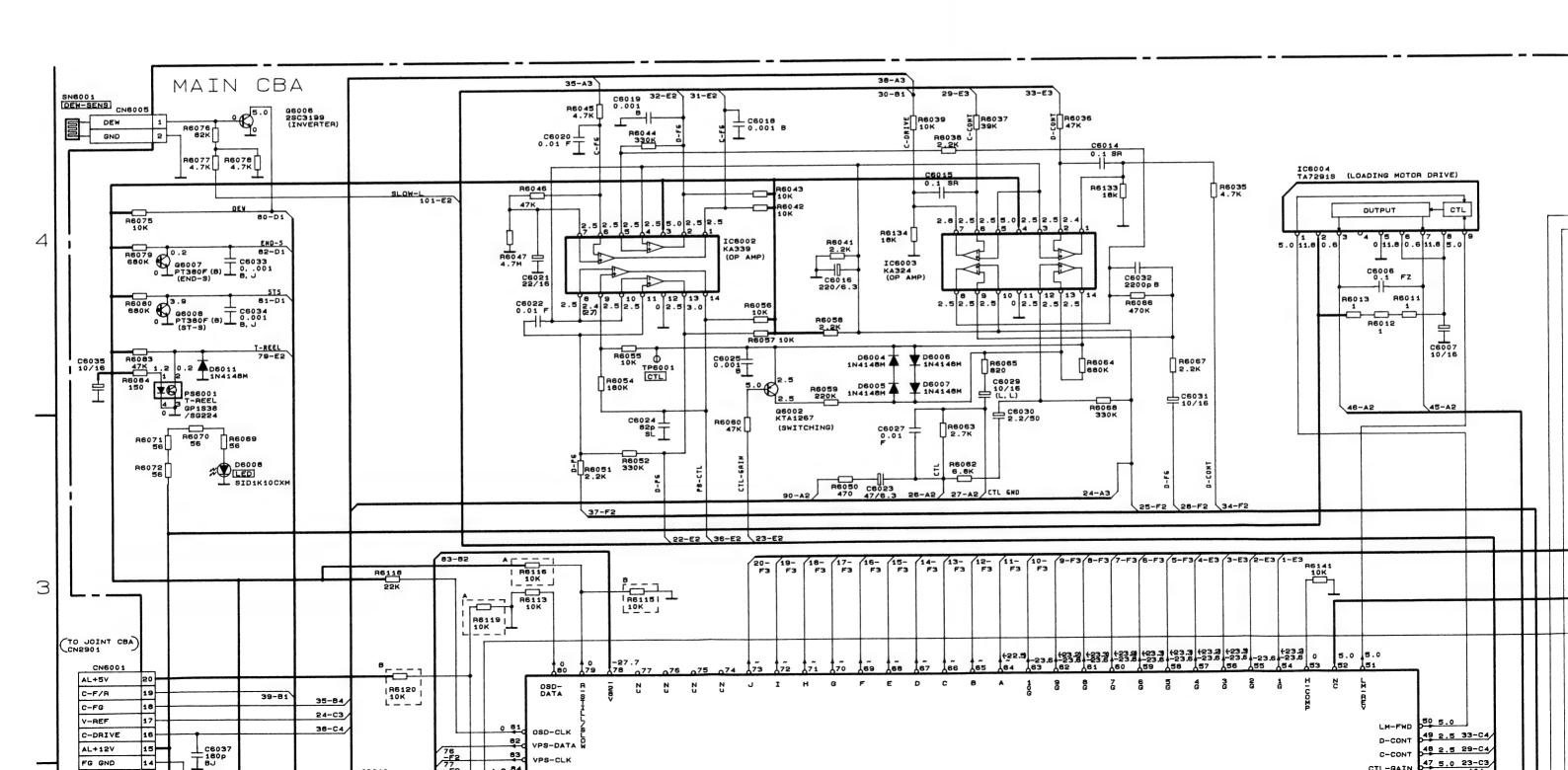


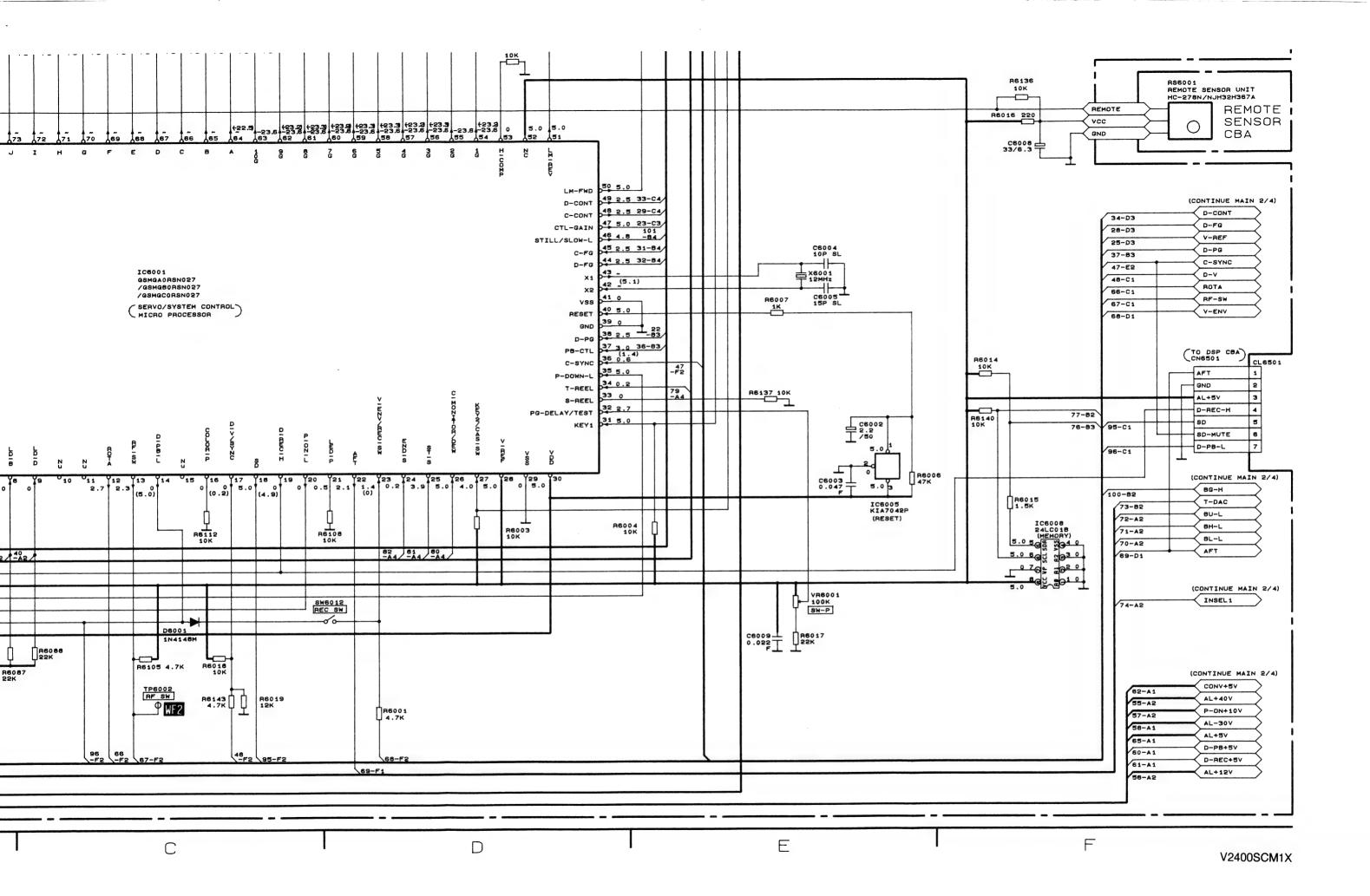


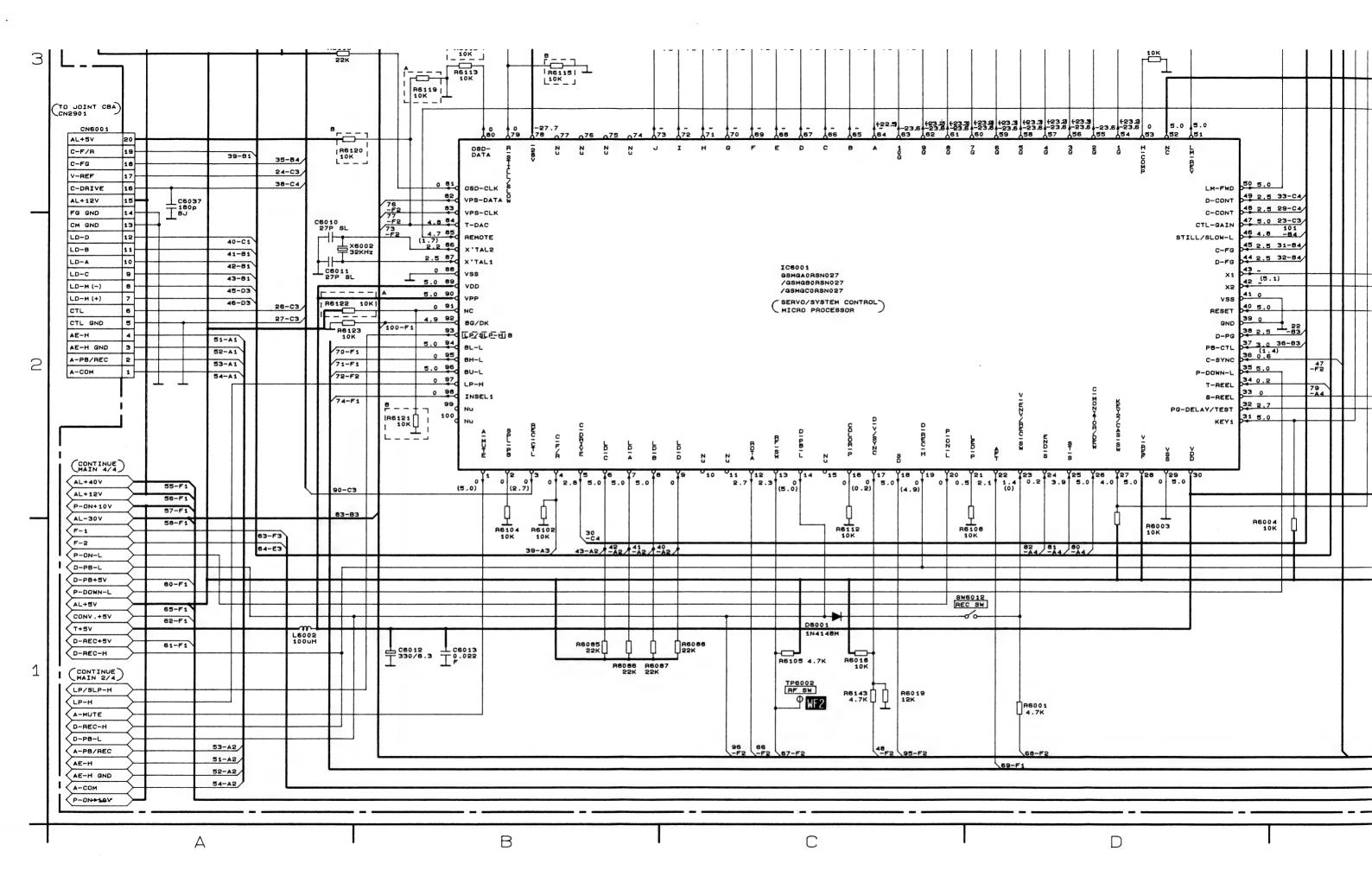
#### Main 1/4 Schematic Diagram

#### Comparison

V-8008CM(N V-8008SA(N

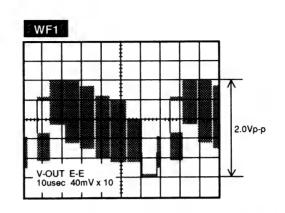


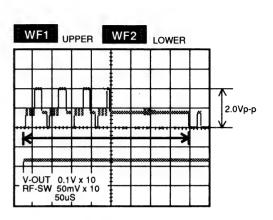




#### Comparison Charts of Models and Marks.

MODEL NO.	MARK
V-8008CM(N)	Α
V-8008SA(N)	В





V-REF

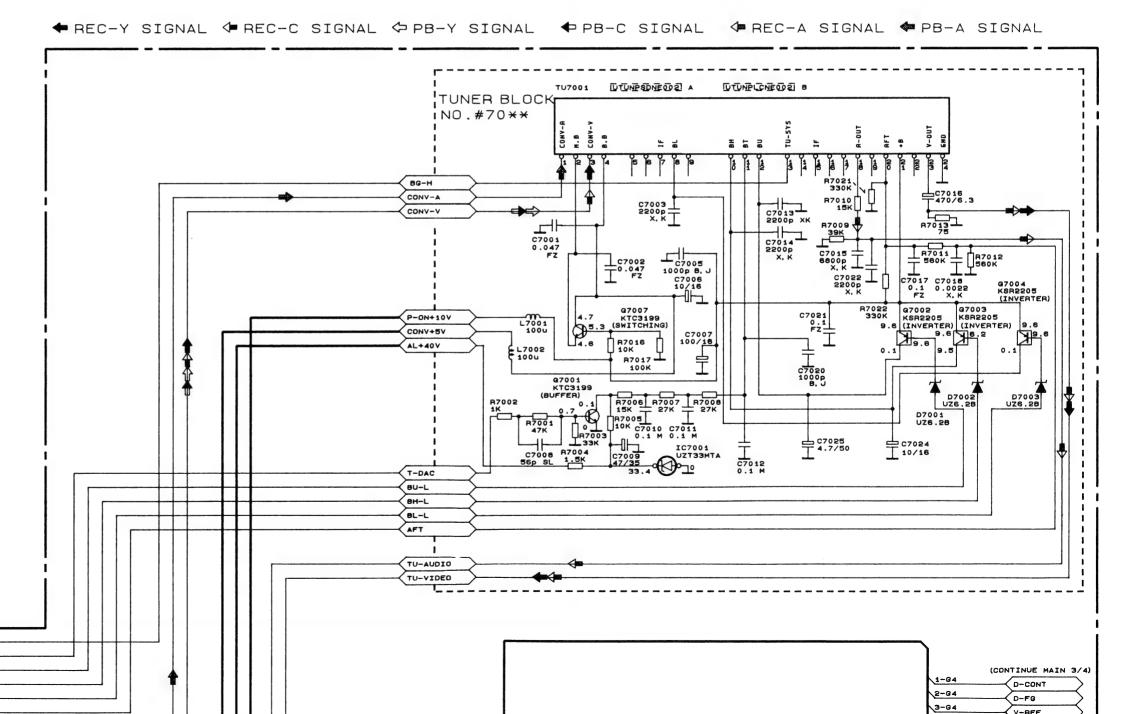
D-PG

C-SYNC

4-G4

5-G4

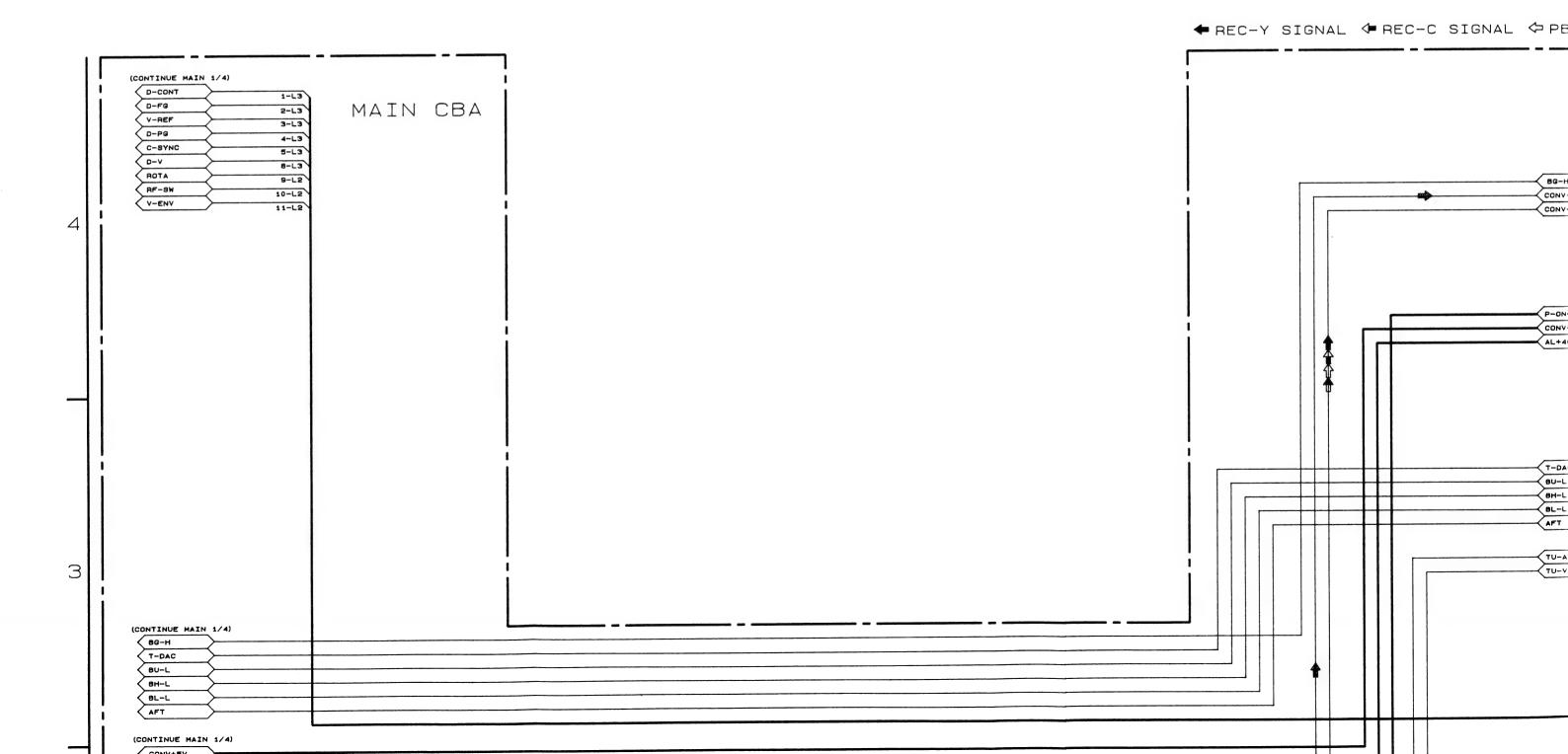
8-G4

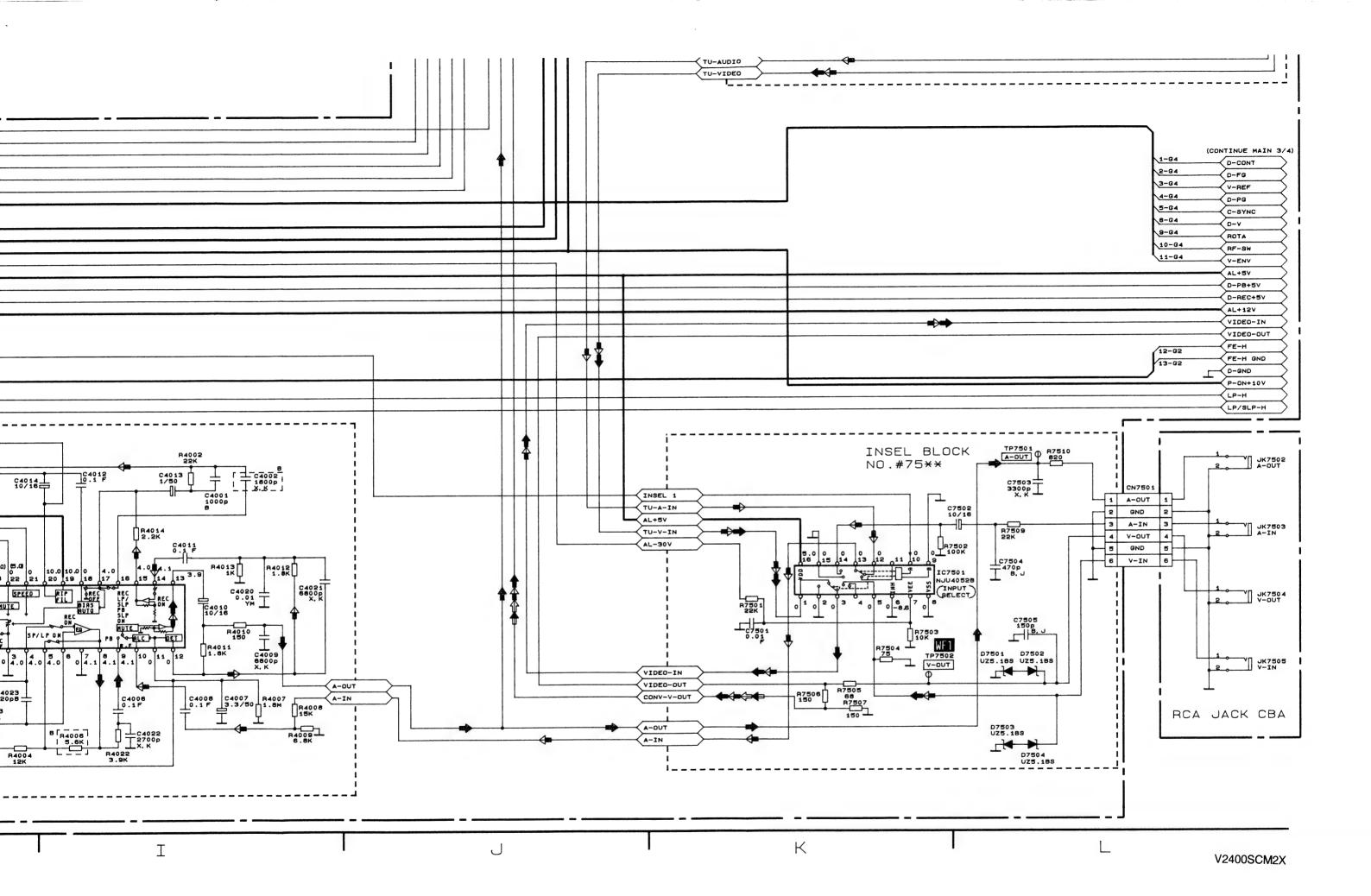


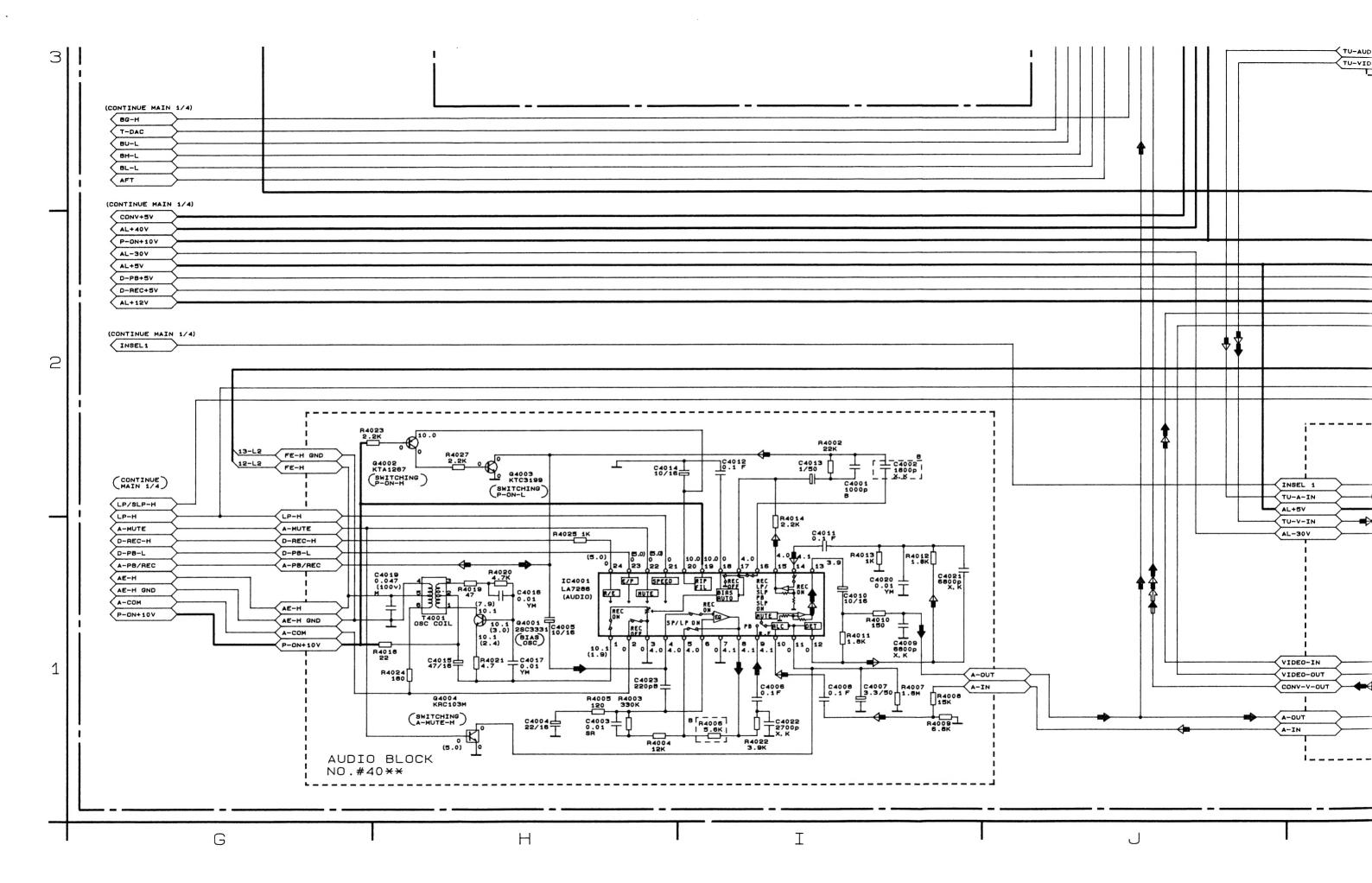
## Main 2/4 Schematic Diagram

#### Comparison Charts of Models and Marks.

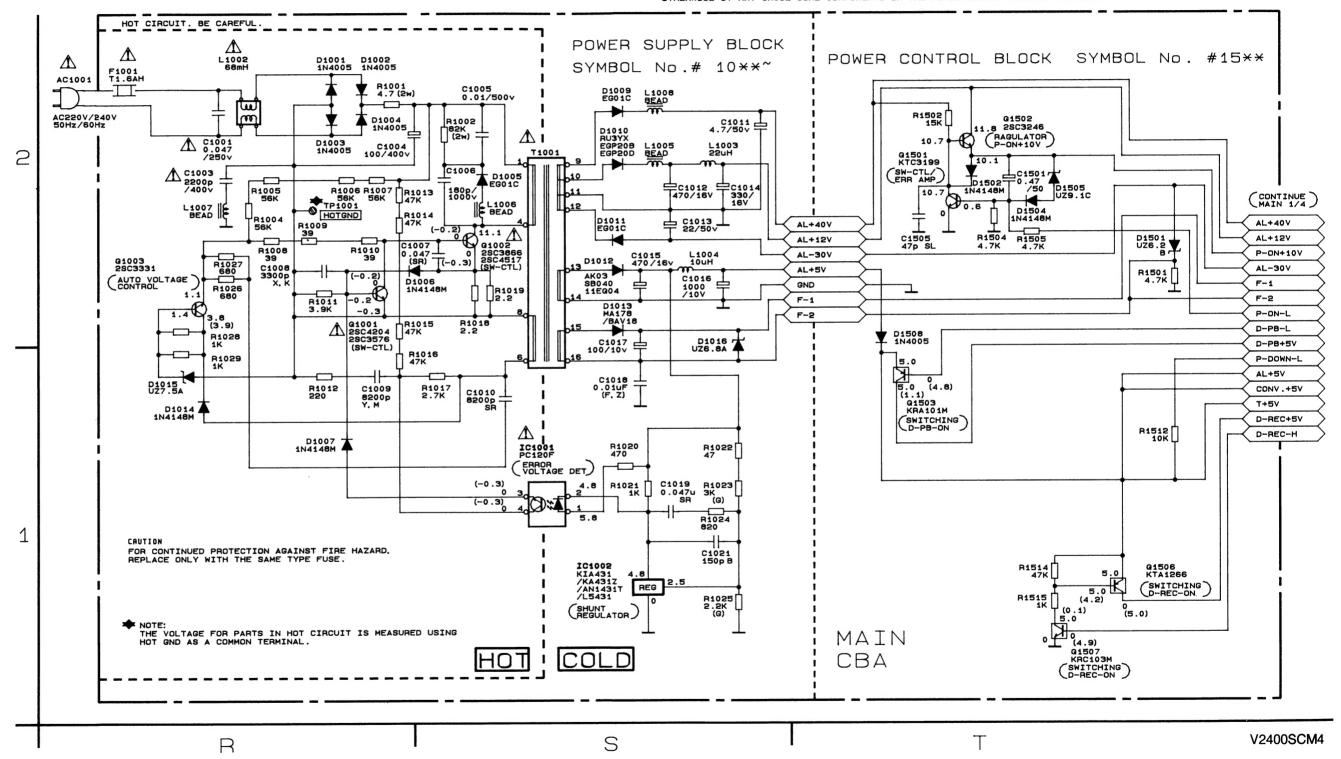
MODEL NO.	MARK
V-8008CM(N)	Α
V-8008SA(N)	В



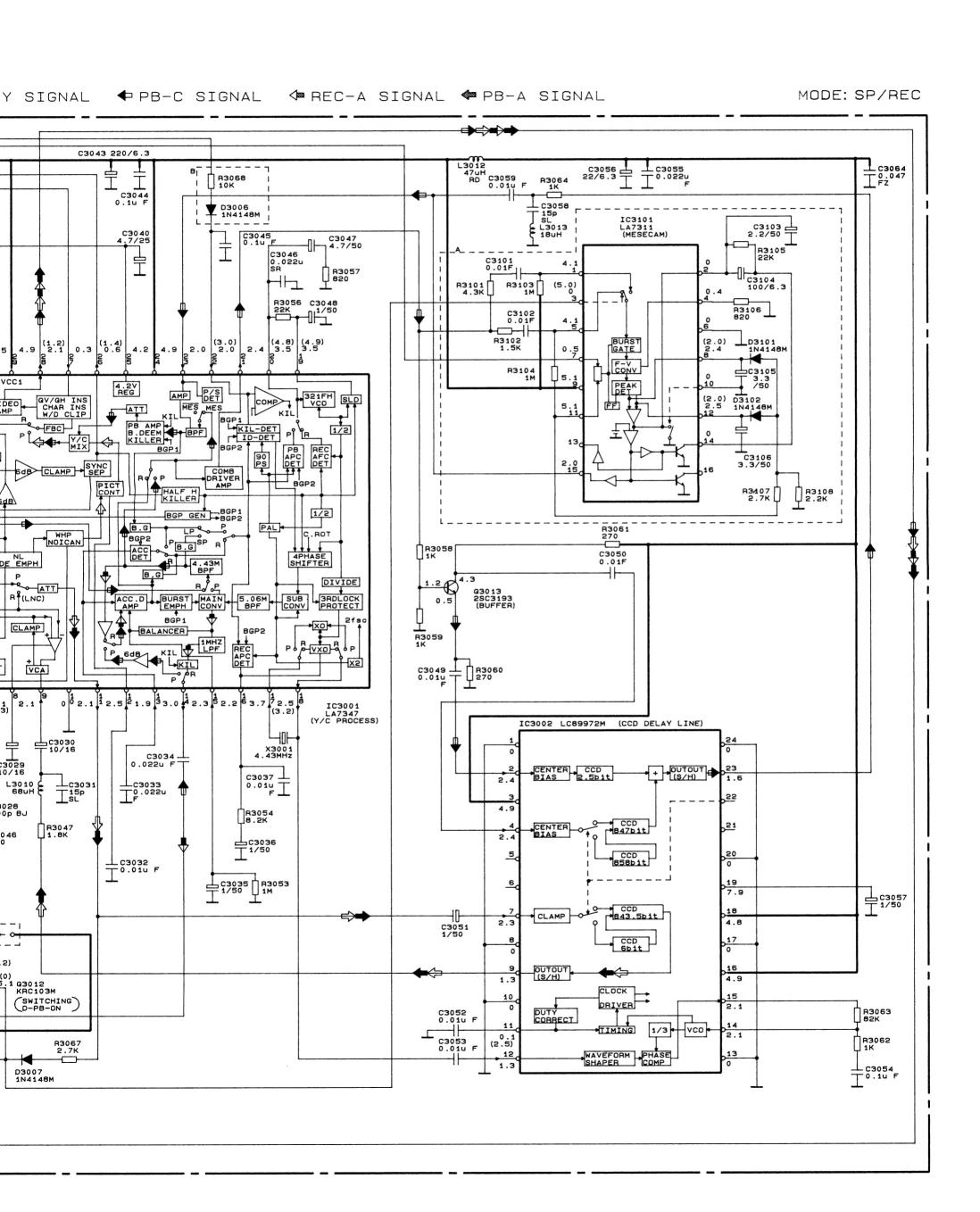




CAUTION!
FIXED VOLTAGE POWER SUPPLY CIRCUIT IS USED IN THIS UNIT.
IF MAIN FUSE (F01) IS BLOWN, CHECK TO SEE THAT ALL COMPONENTS IN THE POWER SUPPLY
CIRCUIT ARE NOT DEFECTIVE BEFORE YOU CONNECT THE AC PLUG TO THE AC POWER SUPPLY.
OTHERWISE IT MAY CAUSE SOME COMPONENTS IN THE POWER SUPPLY CIRCUIT TO FAIL.



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		Γ	C-REC	20mV	. 7							RF.	B 10r SW 0	nV X 1 .5V X	10			888		
		MARK A B	MARK A B	MARK A B	MARK A B	MARK A	MARK A B	MARK A B	MARK A B	MARK A B	MARK A B	MARK A B	MARK  A B	MARK  A B	MARK  A B	MARK  A B	MARK  A B	MARK  A B	MARK A B	MARK A B



P

← REC-Y SIGNAL ← REC-C SIGNAL ← PB-Y SI

